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Agriculture and Mechanics



The Handmaids of Progress and Prosperity.

Catalogue, 1897-'98

Agricultural Mechanical

... College ...

For the Colored Race,

GREENSBORO, N. C.

C578
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Fourth Annual Catalogue

of the



Agricultural and Mechanical College

for the

....Colored Race....

GREENSBORO, N. C.

1897-'98.

GREENSBORO, N. C.:

REECE & ELAM, POWER BOOK AND JOB PRINTERS.

1898.

Calendar—'98-9.

SEPT. 29-30th. Examinations.

OCT. 1st. Registration.

OCT. 3rd. Fall term begins.

DEC. 23rd. Term ends.

JAN. 3rd. Winter term begins.

MARCH 17th. Winter term ends.

MARCH 20th. Spring term begins.

MAY 21st. Baccalaureate sermon.

MAY 25th. Commencement.

Holidays.

Thanksgiving,

Arbor Day,

Lincoln's Birthday,

Washington's Birthday.

Board of Trustees:

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T. B. KEOGH	PRESIDENT, Greensboro, N. C.
JAS. B. DUDLEY	SECRETARY, Greensboro, N. C.
R. W. MURRAY	TREASURER, Greensboro, N. C.

Faculty and Officers:

JAS. B. DUDLEY, PRESIDENT.

Shaw University, Raleigh, N. C.

PROFESSOR OF HISTORY AND CIVICS.

ORLO EPPS,

Cornell University, New York,

PROFESSOR OF MECHANICS, DRAWING AND PHYSICS.

Present position since the opening of the College in 1894,

A. T. STEVENS, B. S.,

Michigan Agricultural College.

PROFESSOR OF AGRICULTURE AND CHEMISTRY.

Present position since 1895.

CHAS. H. MOORE, A. B.,

Amherst, Mass.

PROFESSOR OF ENGLISH.

JOHN H. M. BUTLER, A. M.,

Plymouth State Normal 1891; A. M., Livingstone College 1896; Assistant Principal

State Normal School, Elizabeth City, N. C. 1892-'3; Principal Normal

and Industrial Institute, Elizabeth City, N. C. 1893-'5.

Present position since 1895.

ASSISTANT PROFESSOR OF ENGLISH. SECRETARY OF FACULTY.

JESSE HASKELL BOURNE, B. S.,

Massachusetts Institute of Technology 1893; Assistant in Mechanical Engineering

Massachusetts Institute of Technology 1895-'7.

ASSISTANT PROFESSOR OF MECHANICS AND MATHEMATICS.

CHAS. H. EVANS,

Hampton Normal and Industrial School.

INSTRUCTOR IN JOINERY AND WOOD TURNING.

J. E. KENNEDAY,

Hampton.

INSTRUCTOR IN BLACKSMITHING.

MISS S. M. PARKER,

St. Augustine, Raleigh, N. C.

DOMESTIC SCIENCE.

R. W. RICHARDSON,

INSTRUCTOR IN MUSIC.

H. H. FALKENER, B. S., A. M.,

Shaw University, Raleigh, N. C.

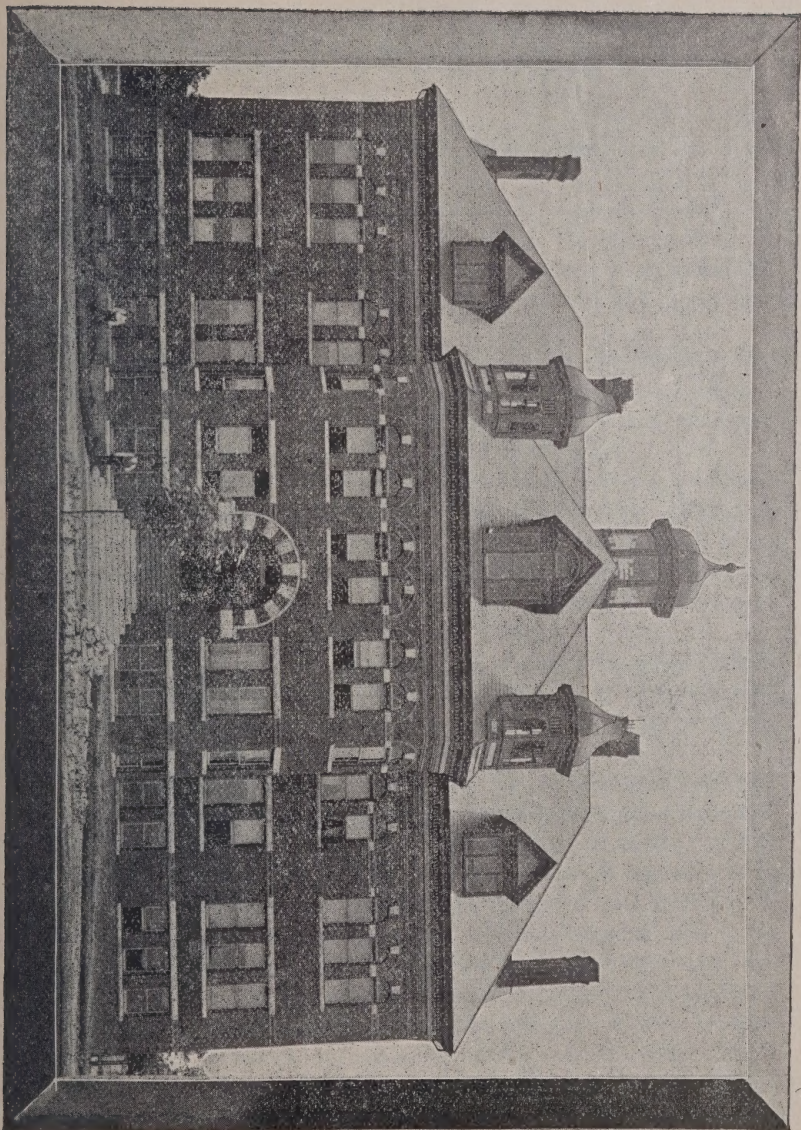
LIBRARIAN AND BURSAR.

MRS. E. A. CHEEK,

MATRON.

JUNIUS ROOKS,

STEWARD AND FOREMAN OF FARM,



MAIN BUILDING

—THE—
Agricultural and Mechanical College
—FOR THE—
COLORED RACE.

This College was established by an Act of the General Assembly of North Carolina ratified March 9th, A. D. 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts, and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of nine members, one from each Congressional District, who are elected by the General Assembly for a term of six years.

The Trustees by the Act of the Legislature have power to prescribe rules for the management and preservation of good order and morals at the College ; to elect the President, instructors and as many other officers and servants as they shall deem necessary ; have charge of the disbursement of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institutions for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived for the most part from the United States, under an act of Congress, known as the "Morill Act," passed August 20th, 1890. This act makes an annual appropriation for each State and Territory for the endowment and support of colleges for the benefit of agriculture and the mechanic arts, to be applied "only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities of such instruction."

The citizens of Greensboro donated 25 acres of land and \$8,000 to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year. A large

dormitory which cost \$6,000, a complete laundry and a green house have been added.

In the summer of 1895 the Mechanical Building, a large two-story brick structure 88x119 feet, was erected at a cost of about \$9,000. This building by the expenditure of about \$7,000 has been supplied with probably the finest and most modern equipments of any school in the State.

A model barn, dairy, silo and live stock have been added the present season.

Girls are admitted to the College on the same terms as "pay students." In addition to the excellent facilities offered for acquiring a good English education the young women under competent instructors are taught sewing, cooking and laundry work. The well-arranged laundry, spacious sewing-rooms, model kitchen and dining room are some of the facilities afforded for practical instruction in those branches of domestic science.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them, and leaders of thought, to the grand opportunities offered by the State and aided by the United States, to the colored youth to thoroughly equip themselves for the battle of life and prepare themselves to successfully work their way as "bread winners," and secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.

Fully eighty per cent. of the colored people in this State live in the country, and subsist on agriculture. The future of the colored race in the South depends upon the ownership of farm lands and their intelligent and skillful treatment by colored farmers. This field will be free from competition and race feeling. Owners of large tracts of land now yielding nothing will be only too glad to rent them to the skilled farmer who graduates from an agricultural college, and also provide him with stock and implements of husbandry.

The young man who leaves this College, with honor, a good character and a well trained mind; who is familiar with science and art relating to his calling in agriculture, mechanics, or any of the trades, will not be compelled to canvass the country seeking employment. Capital will be looking for him to place him in charge of lands and stock, to handle machinery and direct unskilled labor. Where ever skilled labor is found among producers, turning the wheels of industry that increase the wealth of the world, there will be found graduates of the Agricultural and Mechanical College.

North Carolina is an agricultural state. Her manufacturing interests



NORTH DORMITORY.

are increasing in a wonderful manner : her mineral resources are great, and the future of wealth lies in the hands of the men who will guide her plow, care for her live stock, economically use her forests, drive her machinery, harness up her water powers and manufacture her iron and other products. The men who can do this *best* will be those who will qualify themselves for the work by a course in the Agricultural and Mechanical College.

There can be no rivalry between this College and other institutions of learning for the colored race in North Carolina. The paths to be pursued lead in different directions.

The Agricultural and Mechanical College for the Colored Race is unsectarian, and is under the control of no particular denomination. Religious and moral training will receive the closest attention, and students will be required to attend churches of which they are members. Ministers of all denominations are invited to interest themselves in the religious welfare of the College.

The College, broad in its purposes, practical in its work, elevating in its influences, is intended to assist and strengthen the colored people in *all* their efforts for industrial and intellectual advancement. As such its peculiar mission must commend it to the intelligent colored men and women of the State, from whom the Trustees and Faculty confidently expect such sympathy and support as will enable them to make the College of inestimable value to the people for whom it was instituted as well as the government by which it is fostered.

Courses of Study.**FRESHMAN YEAR.**

	FALL.	WINTER.	SPRING.
Algebra	5	5	5
English	5	5	5
Physiology	5	3	
History	2	2	2
Farm Work	3		
Shop Work	3	3	3
Agriculture		5	
Free Hand Drawing		2	2
Botany and Chemistry			5

Sophomore Year.**FOR AGRICULTURAL STUDENTS.**

	FALL.	WINTER.	SPRING.
Geometry	5	5	5
English	5	5	5
Physics	3	3	3
History	3		1
Chemistry		3	2
Horticulture			5
Meteorology			2
Agriculture	3		
Dairying		3	
Botany	2		
Farm Practice and Dairy	5	5	5
Vegetable Histology		3	

Sophomore Year.**MECHANICAL STUDENTS.**

	FALL.	WINTER.	SPRING.
Geometry	5	5	5
English	5	5	5
Physics	3	3	3
Chemistry		3	2
History	3		1
Materials of Construction	2		
Projection	2		
Shop Work	3	3	3
Construction		3	3
Meteorology			2



GREEN HOUSE.

Junior Year.

AGRICULTURAL STUDENTS.

	FALL.	WINTER.	SPRING.
Solid Geometry	5		
Trigonometry and Surveying		3	2
English and Civics	5	5	5
Analytical Chemistry	5		5
Stock Breeding and Feeding	5		
Farm and Dairy Practice	5	5	5
Geology		3	
Horticulture and Landscape Gardening			5
Entomology			3
Agricultural Chemistry			5
Organic Chemistry		5	

Junior Year.

MECHANICAL STUDENTS.

	FALL.	WINTER.	SPRING.
Solid Geometry	5		
Trigonometry and Surveying		3	2
English and Civil Government	5	5	5
Chemistry and Blow Pipe Analysis	5	1	
Designing	3	3	5
Shop Practice	3	3	3
Mechanics		3	3
Physical Laboratory		2	2
Geology		3	

Senior Year.

AGRICULTURAL.

	FALL.	WINTER.	SPRING.
Botany—Plant diseases	5		
Veterinary Science	5	5	
English Reviewed	5	3	5
Agriculture		5	
Political Economy		2	
Horticulture			5
Quantitative Analysis			5
Psychology			
International Law } Elective	5	5	5
Logic			
Thesis			1

MECHANICAL.

	FALL.	WINTER.	SPRING.
History of Architecture	3	3	
Steam Engineering	2		
Designing	2	2	2
Mechanical Laboratory	2	2	
Electric Motors		2	
English Reviewed	5	3	5
Political Economy		2	
Professional Practice			3
Shop Accounts and Management			2
Economic Geology }	3	3	
Economic Botany }			
Thesis			1
Shop Work	3	3	3
Mechanicism	3		

Women's Course.

FRESHMAN YEAR.

	FALL.	WINTER.	SPRING.
Algebra	5	5	5
English	5	5	5
Physiology	5	3	
History	2	2	2
Domestic Science—Cooking	3	3	
Free Hand Drawing		2	2
Chemistry			3
Botany			5
Music	2	2	2

SOPHOMORE YEAR.

	FALL.	WINTER.	SPRING.
Geometry	5	5	5
English	5	5	5
Physics	3	3	3
Chemistry		3	2
Agriculture and Dairying			
Vegetable Histology		3	
Horticulture			5
Meteorology			2
Plain Sewing	3		
Cutting and Fitting		2	
Dairy Work		2	2
Music	2	2	2



BARN AND DAIRY.

Women's Course.**JUNIOR YEAR.**

	FALL.	WINTER.	SPRING
English and Civics	5	5	5
Analytical Chemistry	5		5
Organic		5	
Horticulture and Landscape Gardening			5
Geology		3	
Entomology			3
Household Economy	5		
Dairy Work		3	
Millinery	2		
Elective	3	3	3
Musical Vocal	2	2	2

Women's Course.**SENIOR YEAR.**

	FALL.	WINTER.	SPRING.
Botany—Plant Diseases	5		
English	5	5	5
Logic	5		
Ethics		3	
Political Economy		2	
Poultry Raising	3		5
Horticulture			5
Psychology		2	1
History of Architecture, Elective	3	3	
Zoology		3	
Music	2	2	2
Thesis			2

Degree in Courses.

The degree of Bachelor of Science will be conferred upon students who complete any one of the foregoing courses and sustain all the examinations in the same.

Department of Agriculture.

PROF. A. T. STEVENS, B. S.

Agriculture.

In the Freshman year the work of all the students is the same. At the beginning of the Sophomore year each student makes choice of the course of study best suited to his plans for the future.

The study of Agriculture is not confined to the lecture-room alone, but all class-room instruction will be supplemented with the practice of the principles thus laid down, either in the field, dairy, or with live stock, so far as equipment will permit.

The study of live stock and dairying has received much encouragement in the past year by adding to our equipment a well planned and well equipped dairy building, a model barn for the care and feeding of cattle, and a herd of Jersey cows selected from the famous Occoneechee farm.

Freshman.

In the winter term of the Freshman year there will be forty-five lectures on the history, development, and characteristics of the most prominent breeds of domestic animals.

Sophomore.

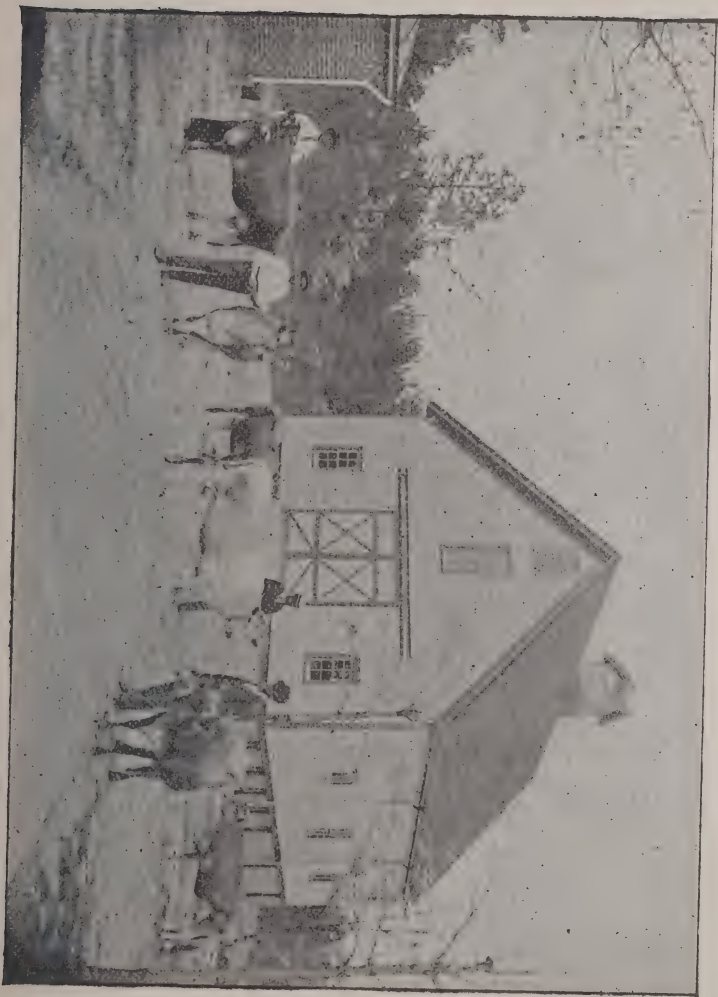
In the fall term of the Sophomore year, for the last half term, lectures will be given on the soil ; its nature, cultivation, methods of drainage, together with farm crops, tools, methods, and the production and application of manures, also soil, moisture and its conservation.

First half of the winter term will be used to study dairying, including care and selection of dairy animals, bacteriology of the dairy, together with best methods of making gilt-edge butter, and the use of the Babcock test and cream separator.

Junior.

The first half of the fall term will be occupied with lectures in the problems of stock-breeding, including the influence of heredity, selection, breeding, variation, environment, habit, crossing, together with methods of grading up the live stock of the farm, as well as pure breeding.

The last half of the term will be devoted to stock-feeding, with re-



DAIRY HERD

ference to the production of fat, labor, or milk and the individuality of the animal, together with nutrition and digestibility of farm crops and foods.

In the winter term of this year the Juniors will spend two hours a day for two days each week in dairy practice, handling cream, making and packing butter and such other topics as lead up to making and marketing first-class butter.

Senior.

In the winter term of the Senior year will be given a course of lectures, five days each week, on farm management, farm fences, and farm book-keeping and such other topics as will equip a young man to successfully manage farms.

Graduation.

Students graduating from the Agricultural course will be required to submit a thesis on some agricultural or horticultural topic in which they have made special investigation under the direction of the head of the department to which the subject belongs, before a diploma of graduation will be given.

Horticulture.

As some knowledge of the nature of plants is deemed necessary before horticulture is taken up, the subject has been deferred till the Sophomore year.

In the spring term of the Sophomore year forty lectures will be given, discussing various fruits and vegetables, the preparation of the soil for fruit, soils adapted to various fruits, localities and the influence of the form of the same, together with cultivation, propogation, marketing, and care of fruit.

Class-room work will be supplemented by work among the fruits and vegetables by the class during this term.

The Juniors will have a course of lectures in market-gardening and vegetable culture for the first half of the spring term. These lectures consider the vegetables best adapted for such work in the South, growing, soil, etc.

During the spring term of the Senior year those seniors electing horticulture will have forty hours which will consist of lectures, laboratory and field work. The lectures relate to disease and insect injurious to fruits and vegetables, their cause, prevention and treatment. The work in the laboratory will be with the compound microscope,

studying plant diseases, with chemicals and other apparatus compounding and applying insecticides and fungicides.

A portion of this term will also be devoted to the study of green-houses, especially the commercial green-house, their construction and management.

Landscape Gardening.

During the spring term of the Junior year forty lectures or exercises in the study of landscape art, will be given. This will be presented with especial reference to the use of nature's nearest, most economical materials. Among other topics will be the subjects of walks, drives, arrangement of trees and shrubbery, flower beds and the use of aquatics. Summer houses, their place, the building of, etc., will all receive proper attention.

Botany.

The Freshman class will, in the spring term, beginning with the fourth week, study structural botany for five days in each week, one hour per day.

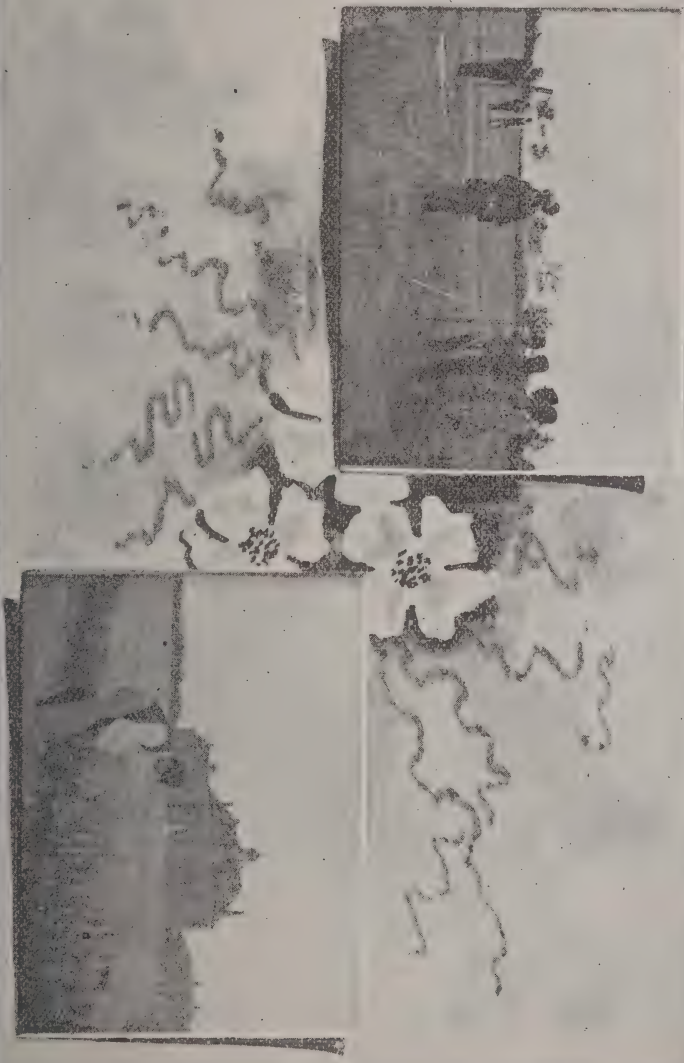
The student begins with the simplest form of life, and step by step studies the source of life; the end to be attained by the plant; through what means that end is reached. In the treatment of this subject the observing and reasoning faculties are brought into work through the study of plants, arrangements, modifications, plant kingdoms, etc.

The student is taught the use of the simple microscope, and by use of it will observe the different parts of plants, become familiar with their names, relations and uses. He is taught to rely on his own thoughts and draw his own conclusions.

Sophomore Year.

For the first half of the fall term the sophomores will continue the study of elementary Botany, taking up some of the troublesome weeds of the farm, seeds, and reproduction.

During the winter term, for three days each week and two hours per day the student will study with the compound microscope, the physiology of plants; including cell contents, color bodies, starch, crystals, etc. The student will be taught to prepare with his own hands, sections for the work and then to place drawings on cards showing as accurately as possible what he has seen and then explain more fully by accompanying notes, being concise in his statements.



FARM DRAINAGE.

HEDGE TRIMMING.

Senior.

Those who elect botany in this year will spend two hours a day for five days a week of fall term in studying lower plant life; their nature; methods of multiplication, their growth. Parasitic fungi will receive especial attention. Students will be required to make cultures, also collections of fungi before completing the study, thus educating both the hand, the eye and the mind.

Chemistry.

A. T. STEVENS, PROFESSOR.

For the first three weeks of the spring term of the Freshman year there will be five lectures a week on elementary chemistry, using also Roscoe's Elementary Chemistry as a text book.

In the winter term of the Sophomore year thirty more lectures in elementary chemistry will be given, supplemented by the same text book as in the previous work.

For two hours per day, two days per week, of the spring term the Sophomores will have Laboratory practice in elementary chemistry. This being the first Laboratory work, Williams' Manual of Laboratory Chemistry, is used as a guide.

The Juniors will have five days a week of two hours each in Qualitative Analysis in the fall term of that year.

The Agricultural Juniors will have five lectures a week during the winter term of that year in Organic Chemistry.

Five days a week for two hours each day in the spring term of the Junior year the Agricultural Juniors will continue Qualitative Analysis and also take up some work in analysis of soils.

The Mechanical Junior will take up Blow Pipe Analysis in the winter term of the Junior year for one day each week two hours per day.

Quantitative chemical analysis will be taken up by the Agricultural Seniors in the spring term of the senior year and pursued for two hours per day, five days per week for that term.

Department of Mechanics and Physics.

PROF. ORLO EPPS, ASSISTANT PROF. J. H. BOURNE.

Instructors $\left\{ \begin{array}{l} \text{C. H. EVANS,} \\ \text{J. E. KENNEDY,} \end{array} \right.$

“There are two most valuable possessions which no search warrant can take away, nor reverse of fortune destroy. They are what is put into the brain, knowledge, and into the hand, skill.”

The work in this department is designed to give the student such a combination of knowledge and skill that he may be something more than an ordinary mechanic or an impracticable theorist.

From the beginning of the Freshman year the time is divided between the lecture room, drafting rooms, and shops. Students will be given an opportunity of visiting the various manufactories in and around Greensboro, and every lecture and exercise will be illustrated as far as possible, and the practical applications pointed out.

The graduate of this department will be able to enter upon any special line of work, pertaining to mechanics that he may choose, and will have a good chance of excelling in his line.

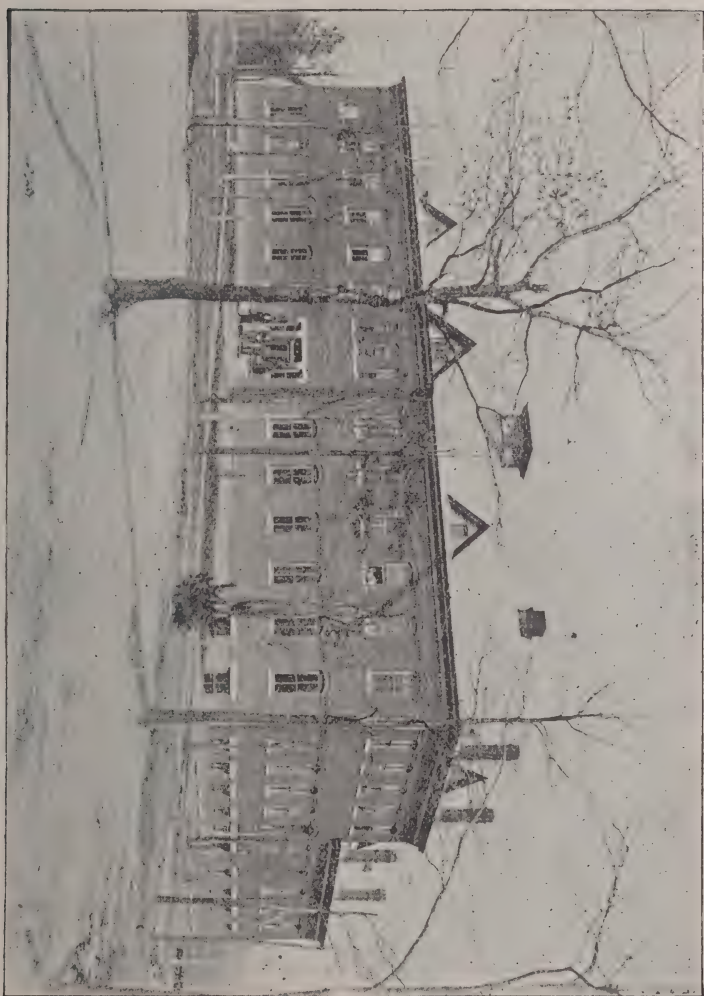
It is recognized at the outset that a knowledge of how to make and read drawings is necessary to success in mechanical work, and further that both practical knowledge and mathematical science are necessary in preparing any reliable drawing or interpreting the same. The course as laid down is designed to make the student familiar with either machine shop practice, or building design and construction.

An important feature of the department is the mechanical training arranged for the students in the course in agriculture. It is intended to make the farmer largely independent of the tradesman to whom much of his profits annually go, and to enable him to operate modern farm machinery successfully.

Equipment.

This department is well equipped for the work in hand and other machinery will be added from time to time as required.

The department building is a substantial modern structure, two stories and basement. On the first floor are the joinery, wood turning shop, machine shop, and model room; in the basement of the rear wing is the smith shop, paint shop, wood working machine shop with stock room, and adjoining this is the boiler and engine rooms. The office, lecture-room, apparatus-room, reading-room and drawing-rooms are on the second floor. The equipment in the physical department



MECHANICAL BUILDING.

consists of an Atwood's machine, air pump and accessories, port Lumere for projection, variety of batteries, and electrical instruments, compound microscope, balances, pulleys, pumps, sonometer, and a general assortment of apparatus for the lecture table.

The lecture-room can be made dark at a moment's notice and the sunlight used to illustrate on a permanent screen. Water and power are at hand for use, also gas. A dark room is fitted up for photographic use and for experiments requiring it.

In mechanics, a full collection of materials of construction will be provided so that students can study them from observation as well as from text. A museum of models in mechanism and construction has been begun and will be added to as required. A reading-room is provided in the building, well supplied with books of reference and technical journals. This is open at all times to the students. The equipment in drawing consists in tables, drawing-boards and T squares. Students will provide themselves with instruments, which will be arranged for at lowest rates; also paper, pencils, ink, etc.

In freehand drawing a full set of models and a sufficient number of tables is provided. Alcoves are arranged for teaching shading, and the rooms are well lighted and heated.

The wood-working shop is equipped with twelve double benches, provided with patent vises and stops, twenty-four complete sets of joiners and wood-turners' tools. Each set is arranged in a neat wall case, having a glass door and combination lock. Each student in wood-working has a set of tools and is responsible for them. There is also a large case of tools for the instructor and for general use. The shop is also supplied with a 36-inch band saw, a surface planer, a universal wood-worker with attachments for sawing, ripping, dadoing, jointing, tenoning and boring, a swing-saw, a pattern-maker's lathe, twelve small turning lathes, an emery wheel and grind stone.

The machine shop is equipped with six engine lathes, shaper, drill press, vises, test plates and a full assortment of hand tools.

The forge shop is equipped with twelve patent downdraft, Buffalo forges, each having an anvil, sets of tongs, flatters, fullers, etc., also slack tub and coal box. The blast for the forges is supplied by a 40-inch fan, placed in the corner of the shop, and connected to the main shaft. The smoke is exhausted by the same fan, and forced out above the roof. There is also one portable hand forge for use when the machinery is not running. Two work-benches, supplied with vises, stock and dies, taps, files, etc., also a mandrell, sledges and leather aprons complete the equipment in this shop.

The power plant consists of a 30 horse-power Root tubular boiler of

latest design, and a 35 horse-power Skinner automatic engine of the latest model, and with all modern improvements. These are installed in the very best manner, and are the best to be had of their kind.

The boiler is fed by a steam pump, the water being heated by exhaust steam before it reaches the boiler. The exhaust from the engine is purified and sent through the coils in the rooms for heating the building, and the condensation returned to the boiler. Arrangements are also made for using live steam when the engine is not running. An auxiliary engine and boiler have been purchased, and will be used for testing and experimental work. The advanced students will be required to fire the boiler and care for the engine, also to attend to the machinery. The equipment and the arrangement of this department are entirely new, and are not surpassed by that of any similar institution in this section.

The work of this department is divided into three divisions:

- 1st. Physics and Theoretical Mechanics.
- 2nd. Drawing and Designing.
- 3rd. Practical Mechanics.

Physics and Theoretical Mechanics begin with the Sophomore year. During this year a complete course of lectures on elementary physics will be given, fully illustrated, as far as possible, by actual experiments in the lecture room.

The Sophomores also study the materials of construction during the fall term. Instruction is given by lectures and reference books, and will include a critical study of minerals, metals, woods and various manufactured products which enter into buildings and machinery. During the winter and spring terms lectures will be given on building, construction and also on mechanism. These lectures will be accompanied by exercises in the drafting rooms, and illustrated by models.

The Junior class study trigonometry and land surveying in the winter and spring terms. Practice will be given in farm surveying and leveling, also in plotting the maps of same. The application of trigonometry will be made in the measurement of lines, calculating areas, etc. The principles of drainage and also the law of boundaries will be explained. During the winter and spring terms graphical statics will be studied, including strength of materials, trusses, arches, walls, etc. This work is accompanied by practical exercises and problems in the drafting room. A course in physical laboratory work is followed two terms of this year, and a general introduction to steam and electric machinery will be given by means of lectures and text during the other term.

During the Senior year it is designed to study critically, the design



MACHINE SHOP.

of steam and electric machinery, also water and gas motors. The transmission of power by various methods, together with testing of power plants of all kinds will receive proper attention.

A course of lectures on the history of architecture, also on designing will be given, and the student practiced in planning and specifying work.

At the close of the spring term a thesis will be required on some technical subject; occasional professional essays will be required during the year.

Drawing.

During the winter and spring terms of the Freshman year all students take free-hand drawing. The work consists in copying from flat plates, sketching from geometric models, and later sketching from nature and from mechanical models. The student will be drilled in making free-hand working sketches, sections and elevations. The object of the work is to teach the principles that underlie the art of drawing rather than the making of artists or mere copyists.

In the Sophomore year the mechanical students have instrumental drawing and projection, and also daily practice during the winter and spring terms in detailing construction. This work is thoroughly practical and is intended to give knowledge and skill in the preparation of working drawings. All working drawings are made accurately to scale and figure. The work is traced in ink and the application of color to working drawings taught.

During the Junior year map making and lettering is taken in connection with surveying. Work in architectural and machine design is given, and problems solved are criticised in class. The work in graphical statics is largely done in the drafting-room, and the study of safe and economical construction will proceed together.

The Seniors in this department will make a systematic study of original designing in architecture and machinery. They will be required to submit complete plans and specifications for work and prepare contracts for same, also make out bills of material. They will also be taught blue printing and photographic copying.

Practical Mechanics.

Work in this division consists of joinery work, wood-turning and pattern-making, forging, iron-working, and care of power plant. The Freshmen all take one term of joinery and one of forging. During the spring term they apply their skill in the manufacture of useful articles,

farm tools; etc. The Sophomores in the Mechanical Department continue forging in steel, tempering and welding, and the making of tools. They will also have practice in wood-turning.

The use of hand-tools in the machine shop, also the planers, is taught. Juniors and Seniors will have regular machine-shop practice, including the use of all kinds of modern tools. They will also have charge of the power plant and care of shafting, and machines.

Department of English.

PROF. CHAS. H. MOORE.

PROF. JNO. H. M. BUTLER.

The ability to write a clear and elegant English sentence is an accomplishment much to be desired; and it is a recognized fact that English forms an important branch in all well-rounded courses of study.

Therefore the course in this department extends through the entire four years. It is designed to acquaint the students with the essentials of English grammar, the structure of sentences, and so make them thorough English scholars.

To excite and cultivate a taste for good literature, to acquaint the students with the thoughts and writings of the best authors and to form habits of correct expression, a diligent and critical study of standard works containing master-pieces in prose and poetry, will be required of all students.

The College Library, containing some of the best works in English and American literature, affords splendid facilities for instruction in this department.

Preparatory Department.

Those who are unable to enter the Freshman class receive special preparation in this department.

The first year's work comprises construction of sentences, letter-writing, exercises in reproduction, reading, geography and arithmetic, beginning with fractions.

The second year class continuing the subject of practical grammar, have exercises in analysis and parsing. They also have much practice in drawing up simple business forms and writing business and



CARPENTER SHOP.

social letters. Compositions are required throughout the preparatory course.

The other studies pursued during this year are descriptive and political geography, the history of North Carolina, elementary physiology and arithmetic.

freshman Class.

Having completed the work of the Preparatory Department, students begin the study of the English language, Composition and Rhetoric with Lockwood's Lessons in English as a text-book. The end to be accomplished is to familiarize the student with the structure and arrangement of sentences and the fundamental principles of style. It is designed to enable the student to acquire skill in the logical arrangement of his thoughts, and to express them in a clear and forceful manner.

Selections from Irving, Longfellow, Whittier and Holmes are read as introductory exercises to the study of American literature. Weekly rhetorical exercises.

Sophomore Class.

In the fall term of this year the work is similar to that of the Freshman year. Beginning with the winter term the study of practical rhetoric is commenced. Among the subjects receiving attention are : Diction, Narration, Exposition, Argumentation, Persuasion, and Figures of Speech.

Written productions of the students are read and criticised in the presence of the class. During the year some of the master-pieces of American authors are studied critically.

Weekly rhetorical exercises.

Junior Class.

The study of rhetoric will be continued and completed at the close of the fall term of this year. After which the class will begin a brief survey of English and American literature; rhetoric as to invention; biographical studies of authors and of events connected with their literary productions.

As an intimate acquaintance with the Constitution of the United States and of one's own state is recognized as an essential to good citizenship, for this reason, Civil Government is studied by the class in this year; also ethics, that the students may have some knowledge of the duties they owe their fellow-man.

Weekly rhetorical exercises.

Senior Class.

Select essays and orations of Webster, Calhoun, Bacon, Pitt, Fox, Macauley, Burke and Gladstone analyzed and discussed; class-room exercises and outside work on assigned topics. Critical thesis on Tennyson, Shakespeare and Milton; review.

The study of logic, both inductive and deductive, will be pursued by the class as an aid to correct reasoning. Practical application of what the student learns in this study will be made in testing the validity of arguments and detecting fallacious reasoning.

The present industrial and financial embarrassment shows the importance of a knowledge of economic principles. For this and many other important reasons, the students of this year will also study Political Economy. The relations of capital to labor, the tariff, bi-metalism, and other important questions relating to the welfare of our nation and country, will be carefully studied and discussed.

The subject of Psychology will be studied in this year.

Weekly rhetorical exercises.

Department of Mathematics.

PROF. ORLO EPPS.

PROF. J. H. BOURNE.

The course in this department has been laid out with great care and will be strictly adhered to. The art of being rapid and accurate in computations, and also the analytical powers are developed at the same time. The Mechanical and Agricultural departments give the student a fine field for practical problems.

As many students come so poorly prepared in arithmetic, a two-year preparatory course has been established.

The first year preparatory students will begin arithmetic at the opening of the fall term with a review of fractions.

The second year preparatory students will begin with percentage at the opening of the fall term and will complete arithmetic at the end of the spring term. Text-book—Milne's Standard Arithmetic.

Freshman Class.

Algebra is begun with the fall term and is completed with the spring term. Students are required to give the principles involved in the solution of the problems and perform the work with neatness and despatch. Text-book—Well's Academic Algebra.



WOOD-TURNING.

Sophomore Class.

This class begins geometry at the opening of the fall term. The course includes plane, and solid (with special) geometry. Special attention is given to lead the students to make original demonstrations; to this end the students find the Mechanical Department a very valuable adjunct in which they can make their own models and develop the power of independent reasoning.

Junior Class.

Trigonometry and field surveying are begun with the winter term. The students are taught the use of the instrument and made familiar with its workings. The class in the Mechanical Department will take the subject of mechanics, including graphics, during two terms of this year. Attention will be given to the practical application of these subjects.

Department of History.

PROF. JAS. B. DUDLEY.

It will be the purpose of this department to treat briefly, but as comprehensively as possible, in ancient and modern history, of the great events which indicate the main highway of man's progress and civilization; especial attention being given by lectures and otherwise to the subject of industrial evolution. By attentive study of those historical links—the causes and effects of leading events which mark great epochs, the chronological order of general history will be presented with the purpose of making impressions upon the student's mind that will excite interest and encourage independent reading and reflection.

As this College was established and is sustained by both State and National Governments, it is under special obligations to train its students to become good and patriotic citizens, and since we must know that which we would love and to which we would be loyal, it will be deemed a special mission of the College to give the history of North Carolina and of the United States as thorough study as possible.

The course begins in the Preparatory Department with the history of North Carolina. After the student has acquired a knowledge of his own State he passes in the Freshman Class to the history of the United States. In the more advanced classes he takes up the study of

European and Oriental civilization, Ancient and Modern history. Throughout the entire course the choice selections of historical works contained in the College Library will prove a valuable auxiliary to the instructor in awakening interest and stimulating desire for historical knowledge; and students will be encouraged to avail themselves of the facilities at hand.

Department of Domestic Science.

The national life depends almost entirely upon the individual homes, the home demands the exercise of woman's best powers broadly and carefully trained. This department was established in order to see that the girls are trained in the habits of neatness, thoroughness and gentleness, and to afford training and instructions in these special subjects which must be considered in the daily administration of every home. Special attention will be given to the study of food economy. There is a general demand for persons trained in the art of plain, wholesome cooking. The selection of food material with regards to quality and cost, and the method of preparing by appropriate apparatus, will receive careful attention. In order to meet these demands the following is suggested as a course which will enable young women to meet more intelligently the demands of home and society:

SEWING.

1st Year—The various stitches, overhanding, running, folding-hem, hemming, stitching, back-stitching, overcasting, patch-work, cutting and outlining.

2nd Year—Flat fell, French fell, gussets, gathering and sewing on bands, sewing on tapes, cutting, basting and making aprons, use of machine and hemstitching.

3rd Year—Patching, Darning, various fancy stitches, drawn work, cutting and making undergarments, childrens' clothing, and button holes.

4th Year—Preparatory to dress-making—overhanded gathering, binding with braid, hooks and eyes, buttons, loops, bending seams, bone-casting, button holes on serge, drafting by chart.

5th Year—Plain dress-making, cutting, fitting and matching colors.

6th Year—Fancy dress-making. Fancy needlework.

Students will furnish the cloth for dress-making. Cloth is furnished by the College for the Preparatory work. There will be provisions made for those who wish to take a special course in dress-making.



SEWING CLASS.

COOKING AND FOOD ECONOMY.

1st Year—Brown gravy, brown beef stew, corn bread, baking powder biscuit, ginger cakes, hash, soup, white sauce, boiled pork and cabbage, vegetables; making and care of fire, and washing dishes.

2nd Year—Light bread, frying in deep fat, fresh fish, tapioca pudding, corn muffins, sponge cake, beaten biscuits, smothered chicken, and pan broiling.

3rd Year—Roasting, pastry, boiled beef with vegetables, boiled custard, meat pie, salt fish, fruit cake, plum pudding, and pound cake.

4th Year—Potatoes cooked in various ways, fish chowder, potted meats, broiling over coals, layer cakes, wheat muffins, trying out lard, baked custard, pudding, making sausage.

5th Year—Various kinds of jelly, icing for cakes, ice cream, candies, pudding, sauce, waffles, boiled puddings, Graham bread, French dressing.

6th Year—Clarifying soup, candies, fancy ices, fish sauce, salads with mayonnais, invalid Cookery. (Preserving and pickling.)

The first and second years' work as above laid out is intended to be done by the Preparatory classes.

Admission of Students.

The requirements for admission into the A. & M. College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must not be under 14 years of age and in good health, must understand fairly well the forms and rules of the English language, must be familiar with arithmetic, and have a knowledge of geography and history.

An applicant who is unable to enter the Freshman class may be allowed to enter the Preparatory department which will prepare him to pass the required examination for admission to the higher class.

Any student wishing to enter the Sophomore or any higher class, omitting the earlier classes, will be required to stand such examination as will show ample preparation for such class as he may wish to enter.

A student otherwise qualified may be allowed to elect certain studies

from the regular courses already provided in the College if no inconvenience result to the regular classes.

Students are classified as "free tuition" and "pay" students. The number of "free tuition students" for each county is fixed by the Board of Trustees. For further information on this subject address the President of the College.

Free Tuition or County Students.

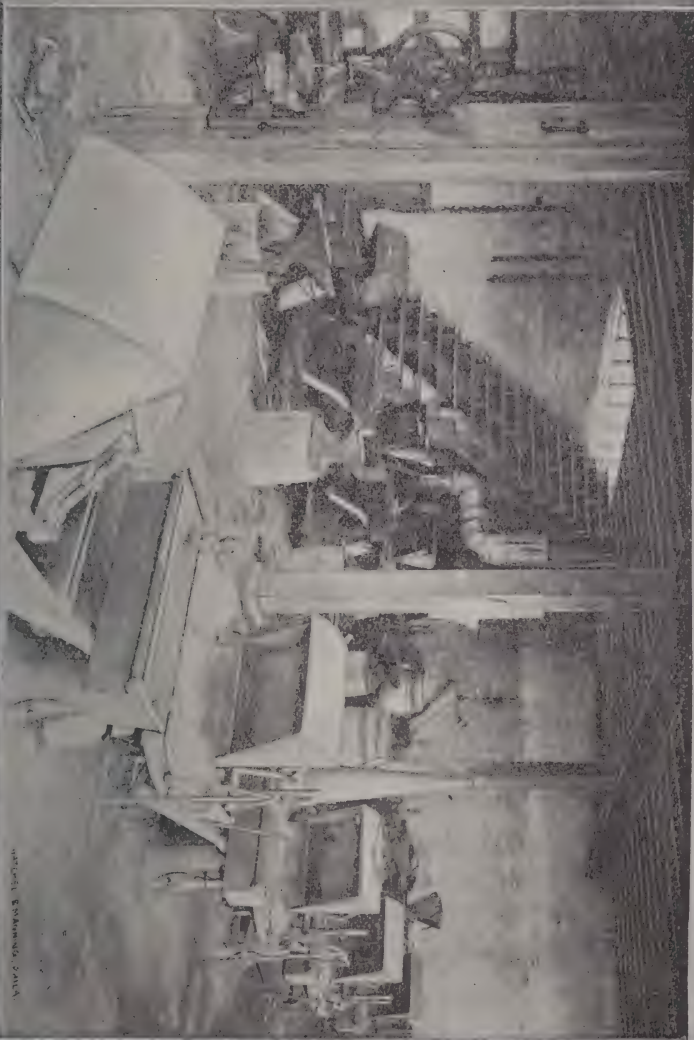
A limited number of students from each county will be allowed free tuition. *A student in this class must procure from the Examiner of his county a certificate setting forth that the applicant has passed an examination equivalent to that required of a second-grade teacher. No special examination will be prepared by the College for such students; a person desiring admission as a county student should exhibit this statement to the Examiner for information and pay such fee as may be required for the examination.* Each county will be allowed one county student and more according to its colored population. The number of free-tuition students accredited to a county if not exhausted by September 1st, will be transferred to counties where the applications are in excess of the accredited quota. For this reason persons who have passed the examination should at once forward their certificates to the President and signify their intention of attending at the beginning of the fall term. For further information on this subject, address the President.

Supplies.

Each student must bring a hair-brush and a comb, a change of sheets and pillow-cases, and two counterpanes, plainly marked.

All students must furnish oil, lamp-chimneys, books, stationery, drawing-pencils, thumb-tacks, and medicines. Arrangements will be made for these at lowest cost.

Each student must keep on deposit \$1.00 to cover any charge which may be made against him for damage done.



ARTIST: EDWARD J. JAY

BLACKSMITH SHOP.

Terms.

MONTHLY PAYMENTS.

Laundry service per month of four weeks	\$.50
Instrumental music per month of four weeks	1.00
Tuition per month of four weeks	1.00
Lodging, use of room, bedding, etc., per month of four weeks	1.00
Board per month of four weeks	5.00

SPECIAL PAYMENTS.

Use of piano by students taking music, per session	\$1.00
Incidental deposit.	1.00
Medical fee	1.00

THESE CHARGES ARE PAYABLE STRICTLY IN ADVANCE.

Students at the time of the advance payments will be given tickets which will admit them to class-rooms, work-shops and dining-hall.

SCHOOL MONTH AND PAY DAYS.

October 3rd, 1898, amount due, including Incidental deposit and Medical fee	\$9.00
October 31st, 1898; amount due	7.00
November 28th, 1898; amount due	7.00
December 26th, 1898; amount due	7.00
January 23rd, 1899; amount due	7.00
February 20th, 1899; amount due	7.00
March 20th, 1899; amount due	7.00
April 17th, 1899; amount due	7.00
May 15th, ending May 25, 1899; amount due	2.60

Free tuition or County students will pay one dollar per month less than the above.

There will not be any reductions for less than two weeks.

Board, lodging, tuition, medical and incidental fees must be paid to the Bursar before the rooms are assigned and tickets of admission to Class-Rooms, Work-Shops and Dining-Hall are issued.

RULES GOVERNING CLASSIFICATION.

I. No student shall be classed at the beginning of any year in any class unless he has passed in three-fourths of the subjects leading to that year.

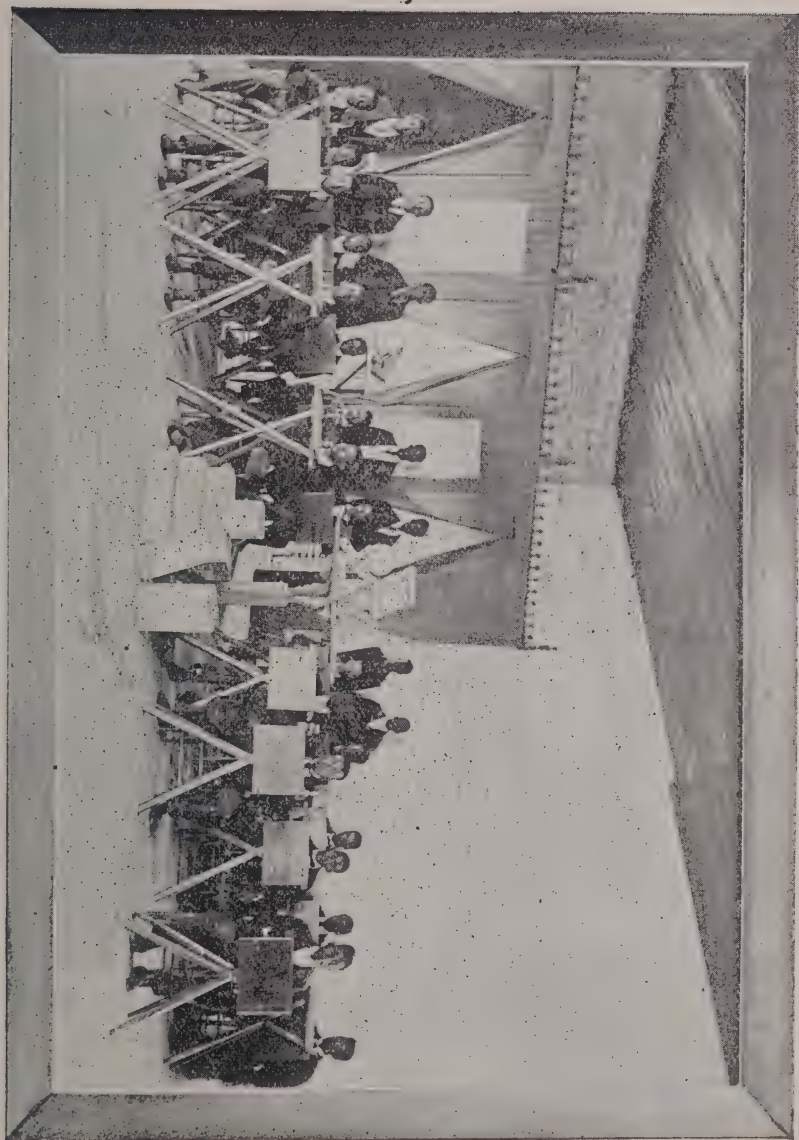
II. Students making seventy per centum and over shall be marked "passed;" eighty-five percentum and over, "honorable." A student failing to make seventy percentum shall be conditioned.

III. Students will be examined during the first week of the term immediately following the term their failures occurred in order to remove conditions. Students failing at such examinations will take examination with subsequent class or classes at the regular time for the same.

IV. Any student who falls below fifty per centum in each subject of the term shall not be allowed to continue with the class.

Students' laundry will be done in the College for fifty cents each per month of four weeks. Girls will be allowed to do their own laundry work.





FREE HAND DRAWING.

Students.

FIRST YEAR.

Barnett, Maggie R.	Wilmington, N. C.
Black, Cora E.	Greensboro, N. C.
Bradey, William	Moffit's Mill, N. C.
Cunningham, Nannie	Greensboro, N. C.
Cuoton, Jno. W.	Wilmington, N. C.
Davis, Lorenza E.	Wilmington, N. C.
Dillard, Mamie O.	Leeds, S. C.
Fleming, Noah S.	Morganton, N. C.
Holley, Charles L.	Greensboro, N. C.
Jones, George T.	Mebane, N. C.
Lane, Allen	Raleigh, N. C.
Lea, Matilda C.	Mebane, N. C.
Mabson, Percy C.	Wilmington, N. C.
McLean, Bessie	Greensboro, N. C.
McKenzie, Sarah P.	Greensboro, N. C.
Merritt, Geneva	Greensboro, N. C.
Moore, George B.	Wilmington, N. C.
Nunnally, Thomas	Yak, Va.
Palmer, George J.	Semora, N. C.
Patterson, Mary E.	Greensboro, N. C.
Queen, James H.	Wilmington, N. C.
Richardson, Mary L.	Wilmington, N. C.
Richmond, Sarah D.	Mebane, N. C.
Sellers, Gertrude E.	Greensboro, N. C.
Sellers, George W.	Bynums, N. C.
Smith, Herman	Wilmington, N. C.
Toomer, Robert J.	Wilmington, N. C.
Ware, Daisy M.	Greensboro, N. C.
Wills, George E.	Brinkleyville, N. C.
Witherspoon, Fannie A.	Greensboro, N. C.

SECOND YEAR.

Bullock, Hannah A.	Greensboro, N. C.
Carson, Charles A.	Marion, N. C.
Ceasar, Robert B.	Mt. Airy, N. C.
Cotton, Lillian	Greensboro, N. C.
Cotton, Norman T.	Greensboro, N. C.

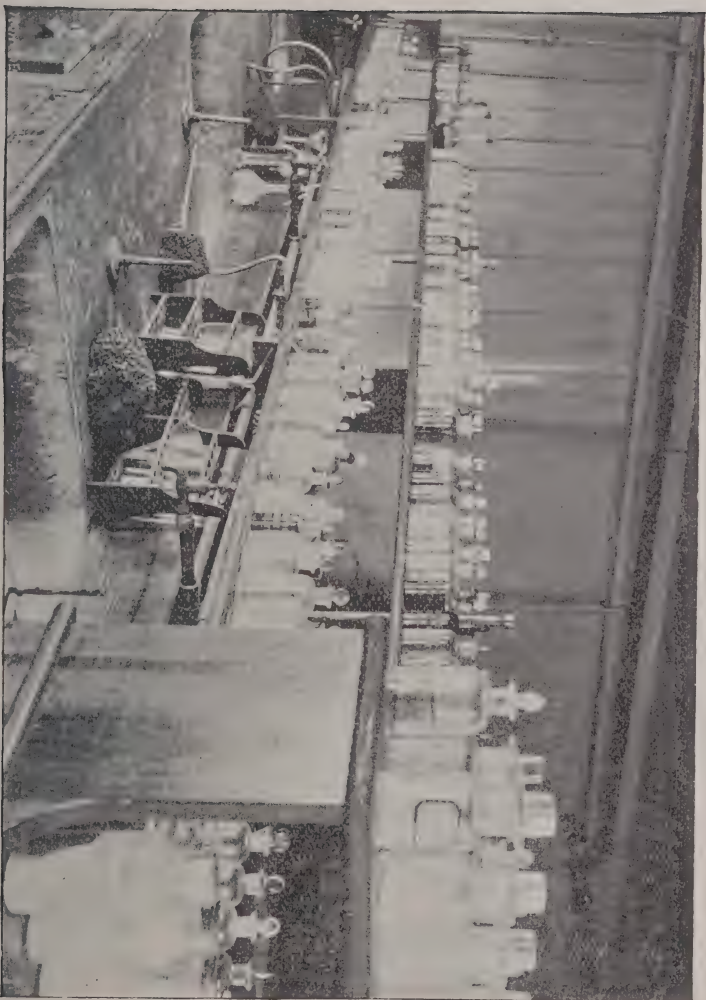
Dunn, John H.....	Raleigh, N. C.
Durham, Mary.....	Semora, N. C.
Fearington, Bitha A.....	Greensboro, N. C.
Foster, Margaret E.....	Greensboro, N. C.
Gray, Roxanna T.....	Greensboro, N. C.
Hepler, Thomas.....	Salem, N. C.
Holcomb, Aaron J. P.....	Wilmington, N. C.
Holley, William A.....	Greensboro, N. C.
Holley, Carrie E.....	Greensboro, N. C.
Hudson, James E.....	New Berne, N. C.
Jones, Doctor H.....	Greensboro, N. C.
Lockett, Fannie E.....	Greensboro, N. C.
McNeal, Clara J.....	Greensboro, N. C.
McAdams, John A.....	Mebane, N. C.
Patilla, Lula B.....	Greensboro, N. C.
Packenham, Thomas W.....	Mebane, N. C.
Plummer, John O.....	Warrenton, N. C.
Pritchett, Nannie L.....	Greensboro, N. C.
Powell, Rufus M.....	Winston, N. C.
Quick, Elias.....	Wilmington, N. C.
Rives, William H.....	Millwood, N. C.
Shaw, Geneva.....	Greensboro, N. C.
Simmons, Victor W.....	Statesville, N. C.
Thomas, Joseph J.....	Wilmington, N. C.
Wilson, Linnie P.....	Wilmington, N. C.
Witherspoon, Thomas H.....	Greensboro, N. C.
Yarborough, Mabel G.....	Danville, Va.

SPECIAL STUDENTS.

Bailey, Neal A.....	Evans, N. C.
Edwards, R. L.....	Bynums, N. C.
McQueen, D. D.....	Durham, N. C.
Wright, Annie C.....	Danville, N. C.

FRESHMAN.

Bryant, Charles, L.....	Wilmington, N. C.
Caldwell, Ernest B.....	Chapel Hill, N. C.
Carter, Allen, J.....	Reidsville, N. C.
Colson, Edgar F.....	Ansonville, N. C.
Cotten, Della C.....	Greensboro, N. C.
Dasher, Susie P.....	Wilmington, N. C.
Donnell, Minnie.....	Greensboro, N. C.



CHEMICAL LABORATORY.

Edwards, Gaston A.	Bynums, N. C.
Foy, Virginia M.	Greensboro, N. C.
Friday, Britton L.	Dallas, N. C.
Godley, Charles W. A.	New Berne, N. C.
Hunter, Charles C.	Raleigh, N. C.
Grimes, Frances E.	Asheville, N. C.
Hammonds, James O.	Tarboro, N. C.
Lanier, Andrew J.	Salem, N. C.
McGuire, James E.	Wilmington, N. C.
Pritchett, Mamie O.	Greensboro, N. C.
Short, Hattie H.	Greensboro, N. C.
Thacker, Bertha L.	Greensboro, N. C.
Williams, Gilbert N.	Wilmington, N. C.
Yates, Berta E.	Greensboro, N. C.

JUNIOR.

Best, Cicero H.	Snow Hill, N. C.
Cheek, Willie T. C.	Warrenton, N. C.
Cunningham, Isaac A.	Hillsboro, N. C.
Curtis, Austin W.	Raleigh, N. C.
Joyner, James W.	Tarboro, N. C.
Robinson, Peter E.	Raleigh, N. C.
Thalley, James F. M.	Marion, N. C.
Watson, Adam.	Warrenton, N. C.

SOPHOMORE.

Brinkley, Robert H.	Wilmington, N. C.
Fuller, Henderson F.	Greensboro, N. C.
Green, John H.	Wilmington, N. C.
Havens, John T.	New Berne, N. C.
Joyce, John C.	Salem, N. C.
Morrow, John M.	Greensboro, N. C.
Neil, Joseph P.	Winston, N. C.
Plummer, Eugene S.	Warrenton, N. C.
Quick, James R.	Laurinburg, N. C.
Richardson, Robert W.	Wilmington, N. C.
Robinson, Charles D.	Mt. Gilead, N. C.
Simmons, Roscoe C.	Aberdeen, Miss.
Thomas, Edward L.	Charlotte, N. C.

Prizes.

PRESIDENT DUDLEY PRIZE.—A prize of forty-eight dollars, payable in eight installments on board and lodging to that student who makes the highest general standing in his studies during the preceding session.

EPPS PRIZE.—Prof. Orlo Epps offers a prize of fifteen dollars to be distributed as follows: Three dollars to that member of the Junior class who does the best work in surveying; three dollars to the mechanical Junior for best work in designing and mechanics; three dollars to the Sophomore for the best work in construction and drawing; three dollars to the Freshman for the most excellent freehand drawing; three dollars to the Preparatory student for the best work in joinery and in the smith shop for the year. All prize work to be the property of the Mechanical Department.

STEVENS PRIZE.—Prof. A. T. Stevens offers a prize of fifteen dollars, which was paid in three equal installments in the following manner: five dollars each term to the student of the Agricultural course having the highest general class record.

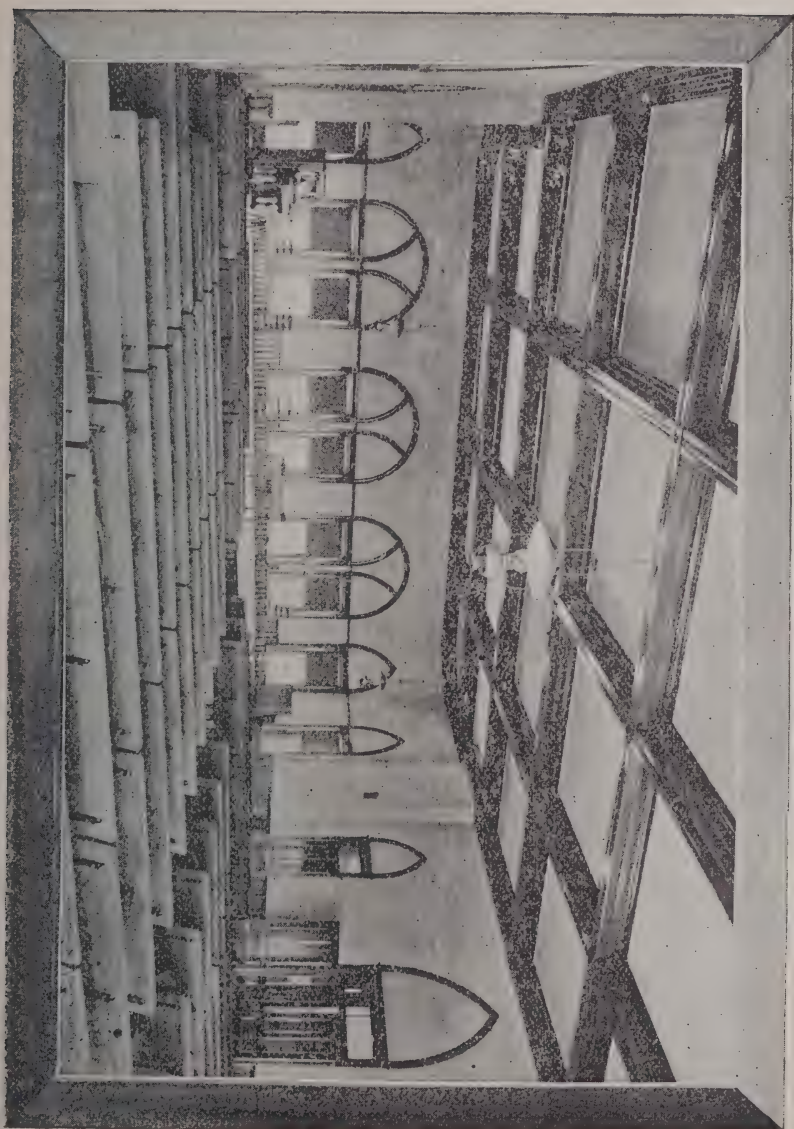
MOORE PRIZE.—Prof. C. H. Moore offers a prize of twelve dollars to be paid in eight equal installments at the end of each month of the school year, to that student who makes the highest general mark in his or her entrance examination. The following conditions govern the bestowal of this prize: first, the student wishing to enter the contest *must be present* in the preliminary examinations September 29-30, 1898, at the opening of the Fall term; secondly, the student, in order to be considered an eligible applicant for the prize, must make a general average of 75 per cent., at least, in the examination.

The Correspondence Department.

A Correspondence Department of study has been established to meet the conditions of persons unable to attend the regular sessions of the institution. Instruction will be given in all of the subjects of a regular college course—including the classics and other branches of liberal culture.

For further information address

PRESIDENT DUDLEY.



General Information.

Students desiring assistance in defraying expenses, as far as possible will be allowed to work at the rate of 5 to 12½ cents per hour, for which they can get credit each month at the time of their advance payment.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student, upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our rules and regulations, to be found on another page of this catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well organized Y. M. C. A. and Y. P. S. C. E., which meet twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

On the payment of the required one dollar annual fee, each student will receive the careful attention of the College physician. By this method the best medical advice is secured at a minimum cost. The physician will make visits daily or oftener to students confined to their rooms.

There are two flourishing literary societies, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. While the Faculty, by presence and advice, will seek to encourage these societies, membership will be optional. The Faculty will also encourage the organization of Technical societies, in which special subjects, in connection with agriculture, mechanics and chemistry, will be considered in a manner conducive to independent thought and research.

Special attention will be given to vocal and instrumental music.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the College—except when the consent of the Faculty has been secured by written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done with safety, as the College cannot, nor does it desire, to wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

The industrial part of each course of instruction applies to all students taking a general course, *and none will be excused therefrom.*

All communications relating to the College, should be addressed to 'The President of the Agricultural and Mechanical College for the Colored Race, Greensboro, North Carolina.'

Organizations.

Military Department.

The battalion is composed of two companies and are officered as follows:

STAFF OFFICERS.

Drill Master,	Chas. H. Evans
First Lieutenant and Adjutant,	J. E. Kennedy
Sergeant Major,	J. F. M. Thalley
Color Sergeant,	A. Watson
Color Sergeant,	G. A. Edwards
Color Corporal,	C. H. Hunter
Color Corporal,	T. W. Packenham

OFFICERS COMPANY A.

First Lieutenant, in command,	Roscoe C. Simmons
Second Lieutenant,	J. M. Joyner
First Sergeant,	R. H. Brinkley
Second Sergeant,	P. E. Robinson
Third Sergeant,	E. L. Falkner
Fourth Sergeant,	W. T. C. Cheek
Fifth Sergeant,	C. D. Robinson
First Corporal,	R. W. Richardson
Second Corporal,	R. D. Moore
Third Corporal,	E. S. Plummer
Fourth Corporal,	W. Quirn
Fifth Corporal,	E. L. Thomas

COMPANY B.

First Lieutenant, in command,	A. W. Curtis
Second Lieutenant,	J. R. Quick
First Sergeant,	J. T. Havens
Second Sergeant,	Jno. H. Green

Third Sergeant,	I. S. Cunningham
Fourth Sergeant,	G. N. Williams
Fifth Sergeant,	C. L. Bryant
First Corporal,	Jno. O. Plummer
Second Corporal,	E. Quick
Third Corporal,	J. Cuoton
Fourth Corporal,	Jno. H. Dunn
Fifth Corporal,	A. J. P. Holcomb

Each male student will be required to possess the college uniform which will be composed of a blouse, trousers and cap. Parents sending their boys need not purchase suits for them, but instead send the amount of \$9.75 to purchase the college uniform, which must be used on all school duties and on leaving the college campus.

The growth of the institution made it necessary for two general literary organizations. The Wise Literary Society was disbanded during the session and two societies, representing the Agricultural and Mechanical Departments, were organized.

The Agricultural society is known as the "Eclectic Literary Society;" the Mechanical as the "Collegian." Membership is optional. The meetings are held bi-weekly.

Eclectic Literary Society.

OFFICERS.

Peter E. Robinson	President.
Charles C. Hunter	Vice President.
Hattie M. Short	Secretary.
Annie C. Wright	Treasurer.
James R. Quick	Editor.
Alma J. Carter	Critic.

Collegian Society.

Gilbert N. Williams	President.
Eugene S. Plummer	Vice President.
Susie P. Dasher	Secretary.
Linnie P. Wilson	Treasurer.
J. F. M. Thalley	Critic.
Jno. T. Havens	Editor.

Y. P. S. C. E.

The Christian Endeavor Society owes its organization to conditions which the Y. M. C. A. cannot reach. Its work is effective and far-reaching.

OFFICERS.

C. H. Best	President.
Alma J. Carter	Vice President.
Mabel G. Yarborough	Recording Secretary.
Susie P. Dasher	Corresponding Secretary.
Edgar F. Colston	Treasurer.

Y. M. C. H.

OFFICERS.

A. W. Curtis	President.
Jno. T. Havens	Vice President.
Adam Watson	Secretary.
Peter E. Robinson	Corresponding Secretary.
Gaston A. Edwards	Treasurer.

Athletic Association.

OFFICERS.

Willie T. C. Cheek	President.
John H. Green	Vice President.
Roscoe C. Simmons	Secretary.
Jno. T. Havens	Treasurer.

Library and Reading-Room.

A large and convenient room on the second floor in the main building, has been arranged for a Library and Reading-room. The books have been purchased with great care, and new ones are being purchased from time to time.

Col. T. B. Keogh, President of the Board of Trustees, made a valuable donation of books to the Library this season.

The Reading-room and Library tables are supplied with some of the best periodicals and the leading newspapers of the State. The students of the College are allowed to borrow books, periodicals and papers under necessary limitations. The Library and the Reading-room is open every week-day from 9 a. m. to 1 p. m. and from 3 to 6 p. m.

Location.

It is most fortunate for the colored people that their A. & M. College was located in the prosperous and growing city of Greensboro. Its

unsurpassed railroad facilities place it in rapid and direct communication with nearly all sections and make it the most accessible town in the State. With the North Carolina Railroad, the Northwestern North Carolina Railroad, the main line of the Southern Railway and the Cape Fear and Yadkin Valley Railway, Greensboro is a railroad centre with twenty-six daily train arrivals and departures which add greatly to the comfort and convenience of students and the travelling public generally.

Possibly nowhere in the state do as kindly inter-racial feelings exist and as friendly an attitude on the part of the white citizens towards Negro education obtain as among the liberal-minded people of Greensboro. On every hand local sentiment is found to be kind, encouraging and responsive. Parents, educators and public men generally can possibly more confidently appreciate the friendly and liberal feeling prevailing in Greensboro, by reverting to the significant fact that when the question of subscribing \$8,000 for the location of this institution in Greensboro was submitted to its citizens but one man voted in opposition thereto.

Religious Culture.

While the college is not a denominational institution, proper attention is given to the cultivation of a broad, liberal Christian spirit. Short devotional exercises are held morning and evening of each day, which are attended by the boarding students; at 7:45 each school morning, short devotional exercises are attended by all students. In the direction of religious culture, in addition to these very brief meetings and the fuller meetings of the Y. M. C. A., during the past session we have enjoyed a splendid series of instructive and spiritual sermons, for which we are indebted to the following named reverend gentlemen:

- S. S. Sevier, Congregational Church, Greensboro.
- Dr. J. H. Weaver, M. E. Church, Greensboro.
- L. Johnson, Baptist (white) Church, Greensboro.
- S. S. Henderson, Baptist Church, Greensboro.
- S. H. Witherspoon, Baptist Church, Greensboro.
- J. F. Lee, A. M. E. Z. Church, Greensboro.
- Jno. Schmidt, Lutheran Church, Greensboro.
- P. J. Jordan, A. M. E. Church, Greensboro.
- M. M. Jordan, M. E Church, Greensboro.
- Prof. J. W. Wilson, Franklinton, N. C.

LECTURES.

Mr. T. T. Fortune, editor of the "New York Age," and Bishop J. P. Handy, of Baltimore, Md., also Mrs. Rorer, of the "Ladies' Home Journal," delivered lectures during the session.

Summer School.

The first session of the Summer School, held last year, was a decided success.

An energetic body of teachers gathered from various parts of the State and spent a few days of earnest study under the guidance of faithful instructors.

Representatives of almost every grade of educational work were present. They found the rest that comes from a change of surroundings, received new inspiration, increased their fund of knowledge and went forth to work—some to new and better paying fields, some to larger salaries—all to discharge their duties with greater efficiency resulting from attendance at the Summer School.

It was the unanimous opinion of all who attended the Summer Normal and who are acquainted with the educational matters of the State that the A. & M. College presented greater opportunities for Colored teachers than they had ever before enjoyed in this State.

The management of the institution, encouraged by such results, has decided to make this department more effective and beneficent. The courses of study have been arranged so as to lead to a college degree. This feature in connection with our Correspondence Department will enable persons who are prevented from attending College during the regular session to pursue a systematic course at home and to do some real college work in the summer, thereby enabling themselves to take and hold rank with progressive minds and to increase their usefulness in their chosen profession.

In addition to the regular College Faculty a carefully selected number of specialists has been secured to deliver a course of lectures in such branches as are of greatest value to teachers in either public or private schools.

It is confidently believed that great enthusiasm and inspiration will be received by all who will avail themselves of this opportunity to hear the instruction of those who are well known as successful teachers and educational leaders.

It will be noticed that the course of instruction covers more than the ordinary summer school course in that it contains such practical subjects as drawing, manual training and elementary science. It is believed that such instruction will be given in these branches as will enable teachers to successfully introduce them in their classes and thus keep abreast of the most progressive schools.

SPECIAL INSTRUCTORS :

Dr. E. E. Smith, Principal State Normal School, Goldsboro.

C. N. Hunter, Principal Graded School, Raleigh.

W. G. Pearson, Principal Graded School, Durham, N. C.

Alexander Graham, President of N. C. Teachers' Assembly and Supt. City Schools, Charlotte, N. C.

M. C. S. Noble, member of State Board of Examiners and Supt. City Schools, Wilmington.

Other instructors will be secured.

Special lectures will be delivered by distinguished and prominent persons.

COURSES OF STUDY.

The courses of study embrace instruction in Manual Training, Writing, Spelling, Elementary Science, Drawing, Geography, History, English Language and Literature, Mathematics, Latin, Physiology, Psychology and Pedagogy.

The teachers will not only give instruction in all of the branches named, but will also give frequent and practical illustrations of the best methods of teaching them.

Special attention will be given to the branches taught in the Public and Graded Schools, also to the subjects included in the professional course for teachers as arranged by the State Board of Examiners.

TEACHERS WHO ATTENDED LAST YEAR.

Miss E. L. Ashe	Greensboro
Miss A. J. Austin	Wilmington
Mrs. M. J. Bullock	Greensboro
Miss Bessie N. Boyd	Wilmington
Mrs. H. A. Bullock	Greensboro
Mrs. Jno. T. Brown	-----
Mr. W. A. Clark	Greensboro
Mrs. S. J. Clark	Greensboro
Miss N. C. O'Daniels	Durham
Mrs. M. E. Day	Greensboro
Mrs. Susie B. Dudley	Wilmington

Mr. Jas. Dick	Greensboro
Miss L. B. Edwards	Greensboro
Mrs. Ida Emerson	Greensboro
Miss Maggie W. Edens	Wilmington
Mrs. H. H. Falkener	Greensboro
Mr. D. B. Greer	
Mrs. F. A. Garrett	Greensboro
Mrs. Minnie Gilmer	Greensboro
Mrs. A. M. Hunter	Greensboro
Mrs. Julia Howell	Greensboro
Mrs. Pattie E. Headen	Greensboro
Mrs. F. T. Husband	Durham
Mrs. L. A. Hawkins	Danville, Va
Mrs. A. C. Johnson	
Miss Georgia E. Jones	Greensboro
Rev. J. F. Lee	Greensboro
Mrs. S. A. Logan	Greensboro
Mrs. Katie McMurray	
Miss M. E. Moore	
Mrs. J. P. Morris	Greensboro
Mrs. Sallie Morgan	Reidsville
Mr. U. S. Mumford	Greensboro
Miss Mary Morrow	Greensboro
Miss Mildred A. Matthews	Wilmington
Mrs. G. M. Nelson	Greensboro
Mrs. E. A. Page	Apex
Miss M. O. Pritchett	Greensboro
Miss Phereby Ray	Durham
Miss E. N. Ray	Durham
Mrs. E. E. Smith	Goldsboro
Miss N. J. Staley	Muller
Miss L. B. Searcy	Reidsville
Miss Bertha Thacker	Greensboro
Miss Minerva Thacker	Greensboro
Miss Katie R. Truman	Durham
Miss Maud Washburn	Greensboro
Mrs. A. V. U. Williams	Greensboro
Miss Mattie A. Williams	Castora
Miss Portia J. Whitted	Durham
Miss Laura A. Whitted	Durham
Miss Addie B. Whiteman	Wilmington
Miss A. Lenora Williams	Wilmington
Mrs. Mary Yancy	Greensboro

VISITORS.

Rev. S. H. Witherspoon,
 Rev. S. S. Sevier,
 Prof. Jno. R. Hawkins,
 Mrs. J. C. Jones,
 Prof. N. C. Bruce,

Rev. J. D. Chavis, D. D.,
 Rev. S. J. Walker,
 Prof. C. Suggs,
 Rev. J. A. Savage, D. D.,
 Prof. S. G. Atkins.

LOCATION.

Greensboro is a most excellent location for a summer school. But little west of the geographical centre of the State, it is within easy reach of all sections by railroads which run in every direction—es-

pecially favored by a great trunk line which necessitates neither change of cars nor delay.

The A. & M. College occupies a high and beautiful site in the city. Its facilities are unsurpassed.

Handsome buildings and excellent appointments added to the painstaking work of competent instructors, make the institution an ideal one for study and recreation. Teachers who attend cannot fail to be pleased with every feature of the school.

TERMS :

Tuition per session	\$2.00
Lodging per session	2.00
Board per session	6.00

Board and lodging can be secured either at the College or in the city.

Teachers upon payment of tuition fee may take as many courses as they desire.

Arrangements will be made for reduced railroad rates. Persons expecting to attend or desiring further information are requested to address

PRESIDENT DUDLEY,

A. & M. College, Greensboro, N. C.

Rules and Regulations.

1. The signal for rising will be given at 6:00 A. M. Dressing and arranging rooms 6.00 to 6.30. Morning prayers 6.30 to 6.45 A. M. Study 6.45 to 8.15. Breakfast 8.15 to 8.45 A. M. Class work 9.00 A. M. to 1.00 P. M. Dinner 1.00 to 2.00 P. M. Class Practice Work 2.00 to 4.00 P. M. Recreation 4.00 to 6.00 P. M. Supper 6.00 to 6.30 P. M. Study 6.30 to 9.00 P. M. Prayers 9.00 to 9.30 P. M. Retiring signal 9.45 P. M. Lights out 10.00 P. M.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time; and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution and any student known to have vicious habits or to indulge in vulgar language will be deemed an unfit associate and expelled from the College.

3. Students shall promptly attend prayers and chapel services, and all specific recitations, class and instruction work. Tardiness, or absence from these duties will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings; or who commit intentional damage to College property; or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect College duties, or who engage in drinking, card playing or other vices; or who absent themselves from College grounds contrary to the Rules and Regulations are not regarded as desirable companions for industrious and meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some Church on Sunday morning. Parents and guardians will designate to the President of the College what Churches they wish their children or wards to attend.

7. No student will be allowed to have upon his person, in his room, or in the College buildings, or upon or in the neighborhood of the College grounds, any deadly weapon.

8. The use of tobacco, spirituous, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of the College grounds, or in the buildings. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen, store-rooms or pantry. Students are prohibited from entering the dining-room except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination. It is made the duty of the Matron to observe students during meals; Instruct them in table manners, and report to the President of the Board of Trustees and also to the President of the College, bad conduct of any kind or nature in the dining-room, with the name or names of the student or students.

11. It is forbidden students to receive visitors in the dormitory building. At all times the students shall deport and express themselves respectfully towards the Faculty and every member of it, and also towards their fellow-students. Any deficiency in this particular will be punished. A student failing to respond to reasonable demands made by any member of the Faculty shall be held guilty of contempt of authority and punished accordingly. No student will be retained after he has received one hundred demerits in one year.

By order of

THE BOARD OF TRUSTEES.

Neighborhood of the
center

WEEKS
COLLECTION

SIXTH ANNUAL CATALOGUE

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609

OF THE

Agricultural and Mechanical College

FOR THE

COLORED RACE,

GREENSBORO, N. C.

1899-1900.

GREENSBORO, N. C.:

REECE & ELAM, POWER BOOK AND JOB PRINTERS,

1900.

Calendar—1900-1901.

SEPTEMBER 27-28—Examinations.

SEPTEMBER 29—Registration.

OCTOBER 1—Fall Term begins.

DECEMBER 21—Fall Term ends.

JANUARY 2—Winter Term begins.

MARCH 22—Winter Term ends.

MARCH 27—Spring Term begins.

MAY 26—Baccalaureate Sermon.

MAY 30—Commencement.

Holidays.

THANKSGIVING DAY.

ARBOR DAY.

LINCOLN'S BIRTHDAY.

WASHINGTON'S BIRTHDAY.

MORRILL'S BIRTHDAY.

Board of Trustees.

First Congressional District, W. R. WILLIAMS.
Second Congressional District, ———
Third Congressional District, H. C. TYSON.
Fourth Congressional District, W. F. DEBNAM.
Fifth Congressional District, T. B. KEOGH.
Sixth Congressional District, ———
Seventh Congressional District, L. C. CALDWELL.
Eighth Congressional District, J. T. BENBOW.
Ninth Congressional District, CHAS. E. LANE.

Members at Large.

W. L. KLUTZ,
J. Y. JOYNER,
M. C. S. NOBLE,
GEORGE T. DUNLAP,
A. M. SCALES,
J. L. CURRIE.

Officers of Trustee Board.

A. M. SCALES, PRESIDENT, Greensboro, N. C.
W. F. DEBNAM, SECRETARY, Raleigh, N. C.
R. W. MURRAY, TREASURER, Greensboro, N. C.

Faculty and Officers.

JAMES B. DUDLEY, A. M., PRESIDENT,

Shaw University; A. M. Livingstone College,

HISTORY AND CIVICS.

Teacher in Public Schools 1876-1880. Principal Peabody Graded School 1880-1896.
Present position since 1896.

JOHN THOMPSON, B. Agr.,

University of Minnesota,

AGRICULTURE AND CHEMISTRY.

Instructor in Butter and Cheese Making, School of Agriculture, University of Minnesota, 1890-1891. Assistant in Agricultural Chemistry Minnesota Experiment Station 1891-1895. Assistant in Agricultural Chemistry and State Analytical Work in the Clemson Agricultural College and Experiment Station 1895-1898. Present position since 1898.

HUGO DIEMER, M. E.,

Ohio State University,

MECHANICAL ENGINEERING AND AGRICULTURE,

Engaged in Shops, Purchasing and Sales Departments of Westinghouse Electric and Manufacturing Company 1896-1898. Manager of Cost Department Bullock Electric Manufacturing Company, Cincinnati, 1898-1899. Instructor in Electrical Engineering Cincinnati Y. M. C. A. College 1897. Instructor in Electricity and Mechanical Drawing Atlanta (Ga.) Y. M. C. A. 1898-1899. Present position since 1899.

CHARLES H. MOORE, A. M., BURSAR,

Amherst College, Massachusetts.

ENGLISH.

Principal Graded School, Greensboro, N. C., 1878-1880. A. M. Amherst College 1885. Chair of Ancient Languages Bennett College 1885-1891. Present position since 1897. Principal Preparatory Department.

SOPHIA M. PARKER,

St. Augustine School, Raleigh, N. C.,

PRINCIPAL DEPARTMENT OF DOMESTIC SCIENCE.

Present position since 1897.

GEORGE C. SNOW,

Massachusetts Normal Art School,

ASSISTANT IN MATHEMATICS AND ARCHITECTURE.

Present position since 1898.

D. A. WILLISTON, B. S. A.,

Cornell University,

ASSISTANT IN AGRICULTURE AND CHEMISTRY.

Present position since 1897.

I. S. CUNNINGHAM, B. S.,
A. and M. College, Greensboro, N. C., 1899.
JOINERY AND WOOD-TURNING.
Present position since 1899.

BURK HAYWOOD,
BLACKSMITHING.

MARY HARRIS PERRY,
Washington (D. C.) High School,
ASSISTANT IN PREPARATORY DEPARTMENT.
Present position since 1898.

ESTELLA MAY CARTER,
New Bedford High School, Massachusetts,
LIBRARIAN OF COLLEGE.
Typewriter State House, Boston, Mass., 1896-1897.
Present position since 1898.

ALICE V. WILLIAMS,
Bennett Seminary,
MATRON.
Matron Bennett Seminary 1897-1898.
Present position since 1898.

JUNIUS ROOKS,
STEWARD AND FOREMAN OF FARM.

J. ELMER DELLINGER, M. D.,
Shaw University.

Formerly Professor Physiology and Chemistry in Shaw University. Resident Physician and Surgeon in Charge Leonard Medical Hospital. Professor of Chemistry and College Physician to the Agricultural and Mechanical College for the Colored Race, and late Major and Surgeon of Third North Carolina Volunteer Infantry, U. S. A.

... THE ...

AGRICULTURAL AND MECHANICAL COLLEGE

FOR THE

COLORÉD RACE.

This College was established by an Act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, one from each Congressional District and six at large, who are elected by the General Assembly for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the President, Instructors and as many other officers and servants as they shall deem necessary; have charge of the disbursement of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institutions for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and support of Colleges for the benefit of agriculture and the mechanic arts, to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematical, physical, natural and economic science, with special reference to their application in the industries of life and to the facilities of such instruction."

The citizens of Greensboro donated twenty-five acres of land and \$8,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the School opened in the fall of that year. A large dormitory, which cost \$6,000, a complete laundry and a greenhouse have been added.

In the summer of 1895 the Mechanical Building, a large two-story brick structure, 88x119 feet, was erected at a cost of about \$9,000. This building, by the expenditure of about \$7,000, has been supplied with probably the finest and most modern equipments of any school in the State.

Girls are admitted to the College on the same terms as "pay students". In addition to the excellent facilities offered for acquiring a good English education, the young women, under competent instructors, are taught sewing, cooking and laundry and dairy work. The well-arranged laundry, spacious sewing-rooms, model kitchen and dining-room are some of the facilities afforded for practical instruction in those branches of domestic science.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them and leaders of thought, to the grand opportunities offered by the State and aided by the United States to the colored youth to thoroughly equip themselves for the battle of life and prepare to successfully work their way as "breadwinners" and secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.

Fully 80 per cent. of the colored people in this State live in the country and subsist on agriculture. The future of the colored race in the South depends upon the ownership of farm lands and their intelligent and skillful treatment by colored farmers. This field will be free from competition and race feeling. Owners of large tracts of land now yielding nothing will be only too glad to rent them to the skilled farmer who graduates from an agricultural college, and also provide him with stock and implements of husbandry.

The young man who leaves this College, with honor, a good character and a well-trained mind; who is familiar with science and art relating to his calling in agriculture, mechanics or any of the trades, will not be compelled to canvass the country seeking employment. Capital will be looking for him to place him in charge of lands and stock, to handle machinery and direct unskilled labor. Wherever

skilled labor is found among producers, turning the wheels of industry that increase the wealth of the world, there will be found graduates of the Agricultural and Mechanical College.

North Carolina is an agricultural State. Her manufacturing interests are increasing in a wonderful manner; her mineral resources are great, and the future of wealth lies in the hands of the men who will guide her plow, care for her live stock, economically use her forests, drive her machinery, harness up her water powers and manufacture her iron and other products. The men who can do this *best* will be those who will qualify themselves for the work by a course in the Agricultural and Mechanical College.

There can be no rivalry between this College and other institutions of learning for the colored race in North Carolina. The paths to be pursued lead in different directions.

The Agricultural and Mechanical College for the Colored Race is unsectarian, and is under the control of no particular denomination. Religious and moral training will receive the closest attention, and students will be required to attend churches of which they are members. Ministers of all denominations are invited to interest themselves in the religious welfare of the College.

The College, broad in its purpose, practical in its work, elevating in its influences, is intended to assist and strengthen the colored people in *all* their efforts for industrial and intellectual advancement. As such its peculiar mission must commend it to the intelligent colored men and women of the State, from whom the Trustees and Faculty confidently expect such sympathy and support as will enable them to make the College of inestimable value to the people for whom it was instituted, as well as to the government by which it is fostered.

Location.

It is most fortunate for the colored people that their Agricultural and Mechanical College was located in the prosperous and growing city of Greensboro. Its unsurpassed railroad facilities place it in rapid and direct communication with nearly all sections and make it the most accessible town in the State. From almost every section of the State Greensboro can be reached without change of cars. With the North Carolina Railroad, the Northwestern North Carolina Railroad, the main line of the Southern Railway and the Atlantic and Yadkin Rail-



SEPARATING MILK.



DAIRY WORK.



WATER ANALYSIS.



SOIL AND FODDER ANALYSIS.

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Admission.

The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 14 years of age; must understand fairly well the forms and rules of the English language; must be familiar with arithmetic, and have a knowledge of geography and history.

An applicant who is unable to enter the Freshman Class may be allowed to enter the Preparatory Department, which will prepare him to pass the required examination for admission to the regular College Course.

Any student wishing to enter the Sophomore or any higher class, omitting the earlier classes, will be required to stand such examination as will show ample preparation for such class as he may wish to enter.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Tuition.

Tuition is one dollar per month of four weeks, payable in advance.

A limited number of students from each county will be allowed free

tuition. A student in this class must procure from his county representative in the Legislature a recommendation or endorsement and also from the Examiner of his county a certificate setting forth that the applicant has passed an examination equivalent to that required of a second-grade teacher. No special examination will be prepared by the College for such students; a person desiring admission as a county student shall exhibit this statement to the Examiner for information and pay such fee as may be required for the examination. Each county will be allowed one county student and more according to its colored population. The number of free-tuition students accredited to a county, if not exhausted by September 1, will be transferred to counties where the applications are in excess of the accredited quota. For this reason persons who have passed the examination should at once forward their certificates to the President and signify their intention of attending at the beginning of the Fall Term. For further information on this subject address the President.

Expenses.

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise or guarantee can be made in advance to furnish such work.

Positively no student will be allowed to enter any department of the College without paying in CASH the first month's expenses, as stated below.

No student should expect to enter any department of the College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Laundry service, per month of four weeks	\$ 75
Instrumental Music, per month of four weeks	1 00
Tuition, per month of four weeks	1 00
Lodging—use of room, bedding, etc., per month of four weeks.	1 00
Board, per month of four weeks	5 00

SPECIAL PAYMENTS.

Use of Piano by students taking Music, per session	\$1 00
Incidental Deposit.	1 00
Medical Fee	1 00
Laboratory Fee, per term	25
Workshop Fee, per term	25

THESE CHARGES ARE PAYABLE STRICTLY IN ADVANCE.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, workshops and dining-hall.

SCHOOL MONTH AND PAY DAYS.

October 1, 1900, amount due, including Incidental Deposit and Medical Fee	\$9 00
October 29, 1900, amount due	7 00
November 26, 1900, amount due	7 00
December 24, 1900, amount due	2 00
January 2, 1901, amount due	7 00
January 30, 1901, amount due	7 00
February 27, 1901, amount due	7 00
March 27, 1901, amount due	7 00
April 24, 1901, amount due	7 00
May 22, ending May 30, 1901, amount due	2 25

In addition to the above expenses the cost of text-books must be considered. This will amount to about \$10 per year. The Sophomores in the Agricultural and Mechanical Course require a set of drawing instruments, costing from \$5 to \$10.

Free tuition, or county, students will pay \$1 per month less than the above.

There will not be any reductions for less than two weeks.

Board, lodging, tuition, medical and incidental fees must be paid to the Bursar before the rooms are assigned and tickets of admission to class-rooms, workshops and dining-hall are issued.

Supplies.

Each student must bring a hairbrush and comb, a change of sheets and pillowcases and two counterpanes, plainly marked.

All students must furnish oil, lamp-chimneys, books, stationery, drawing pencils, thumb tacks and medicines. Arrangements will be made for these at lowest cost.

Each student must keep on deposit \$1 to cover any damage which may be made against him for damage done.

Rules Governing Classification.

I. No student shall be classed at the beginning of any year in any class unless he has passed in three-fourths of the subjects leading to that year and has not failed in any subject.

II. Students making 70 per cent. and over shall be marked "passed"; 85 per cent. and over "honorable". A student failing to make 70 per cent. but not less than 50 per cent. shall constitute a "failure".

III. Conditions must be made up within two terms, otherwise such conditions shall be considered as failures.

IV. Failures must be taken over in class.

V. Students will be examined during the first and last weeks of any term to remove conditions.

Special Students.

Persons desiring to take a special course along industrial lines may do so, provided it does not interfere with the regular work of the College, and provided, in the judgment of the faculty, such persons are prepared to take the desired course.

Special students boarding at the College must take at least 25 hours^s per week, 10 hours of which must be industrial work, for which they will be allowed no pay.

Students taking any regular course and who have failed in any subject shall be considered special students until such failures shall have been made up. Such students shall not be permitted to take any subject depending upon the subject in which they have failed.

Graduation.

Students graduating from the Preparatory Course are entitled to Certificates which permit them to enter in the Freshman Class without an examination.

Students are entitled to a Diploma of the College upon the completion of one of the prescribed courses.

Candidates for graduation in the Agricultural Course, in addition to the work outlined in the Catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible parties.

Degrees.

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Agriculture.

Students graduating from the Architectural, Mechanical or Woman's Course shall be entitled to the degree of Bachelor of Science.

General Information.

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 cents per hour, for which they can get credit each month at the time of their advance payment.

Students who have shown themselves exceptionally efficient, willing and trustworthy workers may, at the discretion of the faculty, receive a maximum rate of 7 cents per hour.

Students receiving aid by labor which they may secure at the College are particularly requested to observe: (a) That credit on school expenses only and not money will be allowed for student labor; (b) that credit for student labor will be allowed only on account of board, lodging and tuition, and (c) that credit cannot be transferred from one student to another.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student, upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations to be found on another page of this Catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A. and Y. P. S. C. E., which meet twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

On the payment of the required \$1 annual fee, each student will receive the careful attention of the College physician. By this method the best medical advice is secured at a minimum cost. The physician will make visits daily, or oftener, to students confined to their rooms.

There are two flourishing literary societies, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing, the members become practically familiar with parliamentary law and usage. While the Faculty, by presence and advice, will seek to encourage these societies, membership will be optional. The Faculty will also encourage the organization of technical societies, in which special subjects, in connection with agriculture, mechanics and chem-

istry, will be considered in a manner conducive to independent thought and research.

Special attention will be given to Vocal and Instrumental Music.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done with safety, as the College cannot, nor does it desire to, wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

The industrial part of each course of instruction applies to all students, *and none will be excused therefrom.*

All communications relating to the College should be addressed to "The President of the Agricultural and Mechanical College for the Colored Race, Greensboro, North Carolina."

Library and Reading Room.

A large and convenient room on the second floor in the main building has been arranged for a Library and Reading Room. The books have been purchased with great care and new ones are being added from time to time.

Col. T. B. Keogh, a member of the Board of Trustees, made a valuable donation of books to the Library.

Reading rooms are also provided in the Agricultural and Mechanical buildings, where technical journals and books are kept for the convenience of students in these departments.

The Reading Room and Library tables are supplied with some of the best periodicals and the leading newspapers of the State. The students of the College are allowed to borrow books, periodicals and papers under necessary limitations. The Library and Reading Room is open every week-day from 9 a. m. to 1 p. m. and from 3 to 6 p. m.

Industrial Museum.

An Industrial Museum has been started and already valuable material has been collected. A number of donations have been made by

several firms. We are especially indebted to the Standard Oil Company, of Chicago, Ill., and to the German Kali Works for important series of samples illustrating the manufacture of gasoline, petroleum and lubricating oils of all grades; also for typical potash salts from the famous Stassfurt mines in Germany. The American Enamelled Brick and Tile Company have also sent us a number of fine specimens of tile, brick and terra cotta goods.

Rules and Regulations.

1. The signal for rising will be given at 6 a. m. Dressing and arranging rooms, 6 to 6:30 a. m. Morning prayers, 6:30 to 6:45 a. m. Study, 6:45 to 8:15 a. m. Breakfast, 8:15 to 8:45 a. m. Class work, 9 a. m. to 1 p. m. Dinner, 1 to 2 p. m. Class practice work, 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper, 6 to 6:30 p. m. Study, 6:30 to 9 p. m. Prayers, 9 to 9:30 p. m. Retiring signal, 9:45 p. m. Lights out, 10 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or to indulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Mendacity or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all specific recitations, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings, or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect College duties, or who engage in drinking, card playing or other vices, or who absent themselves from College grounds contrary to the Rules and Regulations, are not regarded as desirable companions for industrious and meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their children or wards to attend.

7. No student will be allowed to have upon his person, in his room or in the College buildings, or upon or in the neighborhood of the College grounds, any deadly weapon. A student in whose possession such a weapon is found will be expelled from the College.

8. The use of tobacco, spirituous, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of, the College grounds, or in the buildings. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen, store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination. It is made the duty of the Matron to observe students during meals; instruct them in table manners, and report to the President of the Board of Trustees, and also to the President of the College, bad conduct of any kind or nature in the dining-room, with the name or names of the student or students.

11. It is forbidden students to receive visitors in the dormitory building. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it, and also toward their fellow-students. Any deficiency in this particular will be punished. A student failing to respond to reasonable demands made by any member of the Faculty shall be held guilty of contempt of authority and punished accordingly. No student will be retained after he has received one hundred demerits in one year.

12. A student cannot remain in good standing in any department when dismissed from another.

13. No diploma shall be given to any student who is in debt to the College. Each graduate must pay for his diploma.

14. Any student found guilty of any species of dishonesty shall be dismissed or expelled at the discretion of the Faculty.

By order of

THE BOARD OF TRUSTEES.



GREENHOUSE WORK.



MAKING CUTTINGS.



CLASS IN BOTANY.



GRAFTING AND POTTING ROOM.



GREENHOUSE.



MILK TESTING.



CLASS IN CHEMISTRY OF COOKING.

Prizes.

THE DUDLEY PRIZE.—A prize of sixteen dollars, payable in eight installments on board and lodging, to the student who makes the highest general standing in his studies during the preceding session.

THE MOORE PRIZE.—A prize of twelve dollars, to be paid in eight equal installments, at the end of each month of the school year, to that student who makes the highest general mark in his or her entrance examination. The following conditions govern the bestowal of this prize; First, the student wishing to enter the contest *must be present* at the preliminary examinations September 28, 29, 1900, at the opening of the Fall term; secondly, the student, in order to be considered an eligible applicant for the prize, must make a general average of 75 per cent., at least, in the examination.

THE HAGANS PRIZE.—Prof. H. E. Hagans, Principal of State Normal School at Goldsboro, offers a gold medal to the member of the Senior Class who writes the best essay on "The Literary Career of Byron."

Religious Culture.

While the College is not a denominational institution, proper attention is given to the cultivation of a broad, liberal Christian spirit. Short devotional exercises are held morning and evening of each day, which are attended by the boarding students. At 8:45 each school morning short devotional exercises are attended by all students. In the direction of religious culture, in addition to these very brief meetings and the fuller meeting of the Y. M. C. A., during the past session we have enjoyed a splendid series of instructive and spiritual sermons, for which we are indebted to the following-named reverend gentlemen:

- Rev. L. Johnston, Baptist Church (white), Greensboro.
- Rev. S. A. Peeler, Methodist Episcopal Church, Greensboro.
- Rev. W. J. Jordan, A. M. E. Church, Asheville.
- Rev. C. E. Hodgin, Presbyterian Church (white), Greensboro.
- Rev. B. B. Hill, Baptist Church, Reidsville.
- Rev. J. P. Morris, Bennett College.
- Rev. L. A. Wood, Bennett College.
- Rev. W. H. Goler, D.D., President Livingstone College, Salisbury.

Agricultural Course.

FRESHMAN YEAR.

FALL TERM.	
	Hours per week.
Algebra	5
English	5
History	3
Shop Work	6
Physiology	5
Agriculture	4
Industrial Drawing	4
WINTER TERM.	
Algebra	5
English	5
History	3
Industrial Drawing	4
Shop Work	6
General Chemistry	6
SPRING TERM.	
Algebra	5
English	5
History	3
Industrial Drawing	4
Shop Work	6
Physical Geography	3
General Chemistry	6

SOPHOMORE YEAR.

FALL TERM.	
	Hours per week.
Geometry	5
English	5
Physics	3
History	2
Botany	5
General Chemistry	6
WINTER TERM.	
Geometry	5
English	5
Physics	3
Horticulture	2
Dairying	5
History	2
Handicraft	6
Qualitative Analysis	4
SPRING TERM.	
English	5
Geometry	5
Physics	3
History	2
Botany	5
Dairy Practice	7
Field Crops	4
Road Construction	2

JUNIOR YEAR.

FALL TERM.	
	Hours per week.
Solid Geometry	5
English	5
Pomology	3
Breeding	3
Qualitative Analysis	4
Farm Accounts	4
Physics	2
WINTER TERM.	
Trigonometry	5
English	5
Landscape Gardening	3
Soil Physics	4
Agricultural Chemistry	5
Farm Accounts	4
Physics	2
Farm Engineering	5
SPRING TERM.	
Surveying	6
Civics	3
Entomology	3
Meteorology	2
Feeding	5
Physical Laboratory	4
Agriculture	3

SENIOR YEAR.

FALL TERM.	
	Hours per week.
Logic	3
Plant Diseases	6
Zoology	3
Soils and Fertilizers	5
Quantitative Analysis	10
WINTER TERM.	
Political Economy	3
Plant Diseases	6
Veterinary Science	5
Geology	5
Quantitative Analysis	10
SPRING TERM.	
Ethics	3
Poultry	5
Agricultural Economics	3
Thesis	20

Mechanical Engineering Course.

FRESHMAN YEAR.

FALL TERM.	Hours per week.
Algebra	5
English	5
History	3
Physiology	2
Agriculture	4
Shop Work	6
Industrial Drawing	4

WINTER TERM.	
Algebra	5
English	5
History	3
Industrial Drawing	4
General Chemistry	6
Shop Work	6

SPRING TERM.	
Algebra	5
English	5
History	3
Industrial Drawing	4
Physical Geography	3
Shop Work	6
General Chemistry	6

SOPHOMORE YEAR.

FALL TERM.	Hours per week.
Geometry	5
English	5
Physics	3
Mechanical Drawing	8
Shop Work	6
History	2

WINTER TERM.	
Geometry	5
English	5
Physics	3
Mechanical Dr'w'g and Projection	8
Shop Work	6
History	2

SPRING TERM.	
Geometry	5
English	5
Physics	3
Machine Drawing	8
Shop Work	6
History	2

JUNIOR YEAR.

FALL TERM.	Hours per week.
Solid Geometry	5
English	5
Machine Drawing	8
Physics	2
Shop Work	6
Bookkeeping	6

WINTER TERM.	
Trigonometry	5
Chemistry	6
Machine Drawing	8
Physics	2
English	5
Shop Work	6
Bookkeeping	4

SPRING TERM.	
Surveying	6
Physical Laboratory	4
Machine Drawing	4
English	5
Shop Work	6
Mechanics	2

SENIOR YEAR.

FALL TERM.	Hours per week.
Mechanism	5
Steam Engineering	2
Machine Drawing	8
Shop Work	6
Logic	3
Strength of Materials	1
Metallurgy of Iron	2

WINTER TERM.	
Mechanism	5
Steam Engineering	5
Machine Drawing	8
Shop Work	6
Political Economy	3

SPRING TERM.	
Gearing and Machine Tools	5
Ethics	3
Shop Work	6
Thesis	20

Architectural Course.

FRESHMAN YEAR.

FALL TERM.

	Hours per week.
Algebra	5
English	5
History	3
Physiology	5
Agriculture	4
Show Work	6
Industrial Drawing	4

WINTER TERM.

Algebra	5
English	5
History	3
Industrial Drawing	4
General Chemistry	6
Shop Work	6

SPRING TERM.

Algebra	5
English	5
History	3
Industrial Drawing	4
Physical Geography	3
Shop Work	6
General Chemistry	6

SOPHOMORE YEAR.

FALL TERM.

	Hours per week.
Geometry	5
English	5
Physics	3
Mechanical Drawing	8
Shop Work	6
History	2

WINTER TERM.

Geometry	5
English	5
Physics	3
Mechanical Drawing & Projection	8
Shop Work	6
History	2

SPRING TERM.

Geometry	5
English	5
Physics	3
Building Material and Construction	8
Shop Work	6
History	2

JUNIOR YEAR.

FALL TERM.

	Hours per week.
Solid Geometry	5
English	3
Building Construction	8
Physics	2
Bookkeeping	6
Shop Work	6

WINTER TERM.

Trigonometry	5
Building Construction	8
Physics	2
English	5
Shop Work	6
Mechanics	2
Bookkeeping	4

SPRING TERM.

Surveying	6
Physical Laboratory	4
Architectural Designing	6
English	5
Shop Work	6
Mechanics	2

SENIOR YEAR.

FALL TERM.

	Hours per week.
Logic	3
Strength of Materials	1
Plumbing	3
Architectural Designing	14
History of Architecture	2
Shop Work	6

WINTER TERM.

Political Economy	3
Steam and Hot Water Heating	5
Architectural Designing	14
Shop Work	6
Geology	5

SPRING TERM.

Ethics	3
Shop Work	6
Architectural Designing	6
Ventilating	2
Thesis	20

Women's Course.

FRESHMAN YEAR.

FALL TERM.

	Hours per week.
Algebra	5
English	5
History	3
Domestic Science	6
Physiology	5
Music	2
Industrial Drawing	4

WINTER TERM.

Algebra	5
English	5
History	3
Free-Hand Drawing	4
Domestic Science	6
General Chemistry	6
Music	2

SPRING TERM.

Algebra	5
English	5
History	3
Free-Hand Drawing	4
General Chemistry	6
Physical Geography	3
Music	2
Domestic Science	6

SOPHOMORE YEAR.

FALL TERM.

	Hours per week.
Geometry	5
Free-Hand Drawing	4
English	5
Physics	3
History	2
Plain Sewing	3
Botany	5
Music	2
General Chemistry	6

WINTER TERM.

Geometry	5
Free-Hand Drawing	5
English	5
Physics	3
Horticulture	2
Dairying	5
Cutting and Fitting	2
Music	2
Qualitative Analysis	4

SPRING TERM.

Geometry	5
English	5
Physics	3
History	2
Botany (Geographical)	3
Dairy Practice	6
Free-Hand Drawing	4
Music	2
Qualitative Analysis	4

JUNIOR YEAR.

FALL TERM.

	Hours per week.
Solid Geometry	5
English	5
Pomology	3
Bookkeeping	6
Physics	2
Household Economy	4
Music—Vocal	2

WINTER TERM.

Trigonometry	5
English	5
Landscape Gardening	3
Chemistry of Cooking (Lectures) ..	5
Bookkeeping	4
Physics	2
Millinery	5
Music—Vocal	2

SPRING TERM.

Civics	5
Entomology	3
Meteorology	2
Physical Laboratory	4
Chemistry of Cooking (Laborat'y) ..	4
Sewing	6
Music	2

SENIOR YEAR.

FALL TERM.

	Hours per week.
Logic	3
Plant Diseases	6
Zoology	3
Cooking	4
Sewing	2
Designing	6
Music	2

WINTER TERM.

Political Economy	3
Plant Diseases	6
Geology	5
Designing	4
Sewing	6
Music	2

SPRING TERM.

Ethics	3
Poultry	5
Designing	4
Sewing	4
Music	2
Thesis	10

Department of Agriculture and Chemistry.

JOHN THOMPSON, Head of Department.

D. A. WILLISTON, Assistant.

In this department thoroughly practical instruction is given in the various arts and sciences pertaining to agriculture, so as to enable the student to intelligently understand the nature of soils, fertilizers, plant growth, feeding, breeding, farm drainage, irrigation methods of cultivation, plant and animal diseases, etc. We aim to train not only the hand and the eye, but we endeavor also to train the mind; in other words, we train the youths to become rational farmers.

All our class-room work finds its complement either in the field, the garden, the greenhouse, the orchard, the barn, the dairy or the chemical laboratory.

Equipment.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as several different kinds of plows, harrows, cultivators, an Empire seed drill, with fertilizer and grass seed attachments; an Empire corn drill, with fertilizer attachment; machinery for market gardening and various other implements.

We are especially indebted to the Chattanooga Plow Works, Chattanooga, Tenn.; The Empire Drill Company, Chesterville, N. Y.; M. G. Newell & Co., Greensboro, N. C., and others for their liberality toward us and the keen interest which they have shown in our industrial work.

The dairy is well equipped with modern apparatus for butter making—such as a United States Cream Separator, six Acme Bail Churns, one Davis Swing Churn, six Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Test Machine, etc., thus enabling us to offer the very best course in butter making. Presumably, apparatus and utensils for cheese making will be added the next session.

The farm, consisting of 125 acres, is also equipped with a splendid herd of purebred and grade Jersey cows, which will be increased just so soon as circumstances will allow.

Different crops—such as wheat, oats, cow peas, sugar beets, sor-

ghum, millet, mangel wurzel, potatoes, tobacco, beans, alfalfa and various other forage crops, etc., are grown on the farm and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on on the farm, illustrating the effect of different methods of cultivation and fertilization on different crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The greenhouse is maintained to aid the student in the study of botany and care of flowers. Instruction is also given in the management of a greenhouse on a commercial scale.

Market gardening is practiced on a small scale for the purpose of giving the student practice in the management of early truck lands.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recomposition of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no institution in the State.

Character of Instruction.

The study of elementary principles of agriculture is begun in the fall term of the Freshman year.

Class-room work is illustrated by means of experiments illustrating osmosis, capillary attraction, composition of plants, how the plant obtains its food from the air and the soil, the effect of sunlight, heat and moisture on germinating seeds, etc.

The object of this term's work is to give the student a sort of a bird's-eye view of agriculture in general. Text book, "First Principles of Agriculture," by Voorhees.

Breeding and Breeds of Live Stock.—This subject is taught principally by means of lectures. The College herd serves to illustrate typical milk cows. Other herds are visited during the term's work so as to acquaint the student with as many breeds of live stock as possible.

Feeding.—This is taught by text book and lectures and is supplemented by practical experiments in feeding dairy cows, poultry and swine. Drill is given in making out rations for different animals.

Farm Engineering.—Subjects like farm drainage and irrigation, the instruction and maintenance of roads and the construction of farm buildings are considered.

Soils and Fertilizers.—In this work special attention is given to a study of different types of soils, the manufacture of commercial fertilizers and their relation to agriculture, care of barnyard manure, etc. A great deal of attention is also given to a study of the relation of humus to soil fertility.

Farm Accounts.—Realizing the great importance to the farmer of keeping some system of accounts on the farm, a thorough course is given in bookkeeping, especially designed to meet the wants of the practical agriculturist.

Dairying.—The work in dairying is begun with lectures on elementary dairy bacteriology and chemistry and completed in the dairy with practical work in butter and cheese making, milk testing, detection of adulterants in milk, butter and cheese.

Poultry Raising.—So far this is taught wholly by means of lectures. It is hoped that a poultry house may soon be built where everything given in the lectures may be illustrated and put into practice. In that event practice in the management of incubators will be given to each student pursuing this course.

Veterinary Science.—Lectures are given on the diseases of farm animals and remedies are discussed. Some practical work is afforded the student in testing cattle for tuberculosis.

Entomology, Anatomy and classification of insects are discussed. Special attention is given to the more important insect pests, with methods for combating them. Text book.

Physical Geography.—Lecture and recitations. The lectures are illustrated by lantern slides.

Geology.—Laboratory work and recitations. The different groups of rocks of the earth's crust are discussed. Text book.

Meteorology.—Text book, Waldo's Elementary Meteorology.

Propagation of Plants.—The instruction in this work deals with the pollination and breeding of plants, grafting, budding, making cuttings, etc. Text book, supplemented by lectures.

Pomology.—The work in pomology deals with principles of fruit-growing, cultivation and fertilization for market gardening purposes.



MECHANICAL BUILDING.



CARPENTRY.



SEWING.



CUTTING AND FITTING.

Landscape Gardening.—The lectures on this subject are illustrated by means of a large number of lantern slides.

Agricultural Economics.—Lectures are given on agricultural production; imports and exports; the relation of agriculture to other industries, value of land and prices of products.

Chemistry.—This study is begun with Elementary Inorganic Chemistry. Text book, Remsen's Briefer Course, supplemented by lectures and laboratory work.

Qualitative Analysis is begun after the student has completed the course in General Chemistry. Text book, Appleton's Qualitative Analysis.

Quantitative Analysis is begun after the work in Qualitative Analysis has been completed. It consists in the analysis of fertilizers, soils, feeding stuffs, butter, etc.

Agricultural Chemistry.—Under this head are taught the chemical changes that occur in plants from the time the seed is put in the ground until the crop is harvested, the changes that occur in the process of digestion and finally the changes that take place in the manure, preparing it again to nourish another crop.

The function of the different elements that enter into the composition of plants is discussed.

Chemistry of Cooking.—This course is open to those who have completed the course in General Chemistry.

The chemical composition of the various materials used for human food, the changes that occur in meats during frying, roasting and boiling is studied. A great deal of attention is given to the chemistry of bread baking, testing of baking powders, etc.

Handicraft.—This is a course open to all students at any time. It consists of practical work in the greenhouse; barn or dairy, for which no pay will be allowed until the student has served a sufficient length of time, after which he will be allowed compensation, provided he can perform such work to the satisfaction of the professor in charge.

Department of Mechanical Engineering and Architecture.

HUGO DIEMER, Head of Department.

GEO. C. SNOW,
I. S. CUNNINGHAM, } Assistants.
BURK HAYWOOD, }

"There are two most valuable possessions which no search warrant can take away, nor reverse of fortune destroy. They are what is put into the brain, knowledge, and into the hand, skill."

The work in this department is designed to give the student such a combination of knowledge and skill that he may be something more than an ordinary mechanic or an impracticable theorist.

From the beginning of the Freshman year the time is divided between the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories in and around Greensboro, and every lecture and exercise will be illustrated so far as possible, and the practical application pointed out.

It is recognized at the outset that a knowledge of how to make and read drawings is necessary to success in mechanical work, and further that both practical knowledge and mathematical science are necessary in preparing any reliable drawing or interpreting the same. The courses as laid down are designed to make the student familiar with either machine shop practice, or building design and construction.

Equipment.

This department is well equipped for the work in hand and other machinery will be added from time to time as required.

The department building is a substantial modern structure, two stories and basement. On the first floor are the joinery, wood-turning shop, machine shop and model room; in the basement of the rear wing is the smith shop, paint shop, wood-working machine shop, with stock room, and adjoining this is the boiler and engine rooms. The office, lecture room, apparatus room, reading room and drawing rooms are on the second floor. The equipment in the physical department consists of an Atwood's machine, air pump and accessories, port Lummere for projection, variety of batteries and electrical instru-

ments, compound microscope, balances, pulleys, pumps, sonometer and a general assortment of apparatus for the lecture table.

The lecture room can be made dark at a moment's notice and the sunlight used to illustrate on a permanent screen. Water and power are at hand for use, also gas. A dark room is fitted up for photographic use and for experiments requiring it.

In mechanics, a full collection of materials of construction will be provided so that students can study them from observation as well as from text. A museum of models in mechanism and construction has been begun and will be added to as required. A reading room is provided in the building, well supplied with books of reference and technical journals. This is open at all times to the students. The equipment in drawing consists in tables, drawing boards and T squares. Students will provide themselves with instruments, which will be arranged for at lowest rates; also paper, pencils, ink, etc.

In free-hand drawing a full set of models and a sufficient number of tables is provided. Alcoves are arranged for teaching shading, and the rooms are well lighted and heated.

The wood-working shop is equipped with twelve double benches, provided with patent vises and stops, twenty-four complete sets of joiners and wood-turners' tools. Each set is arranged in a neat wall case, having a glass door and combination lock. Each student in wood-working has a set of tools and is responsible for them. There is also a large case of tools for the instructor and for general use. The shop is also supplied with a 36-inch band saw, a surface planer, a universal wood worker, with attachments for sawing, ripping, dadoing, jointing, tenoning and boring, a swing-saw, a pattern maker's lathe, twelve small turning lathes, an emery wheel and grind stone.

The machine shop is equipped with six engine lathes, shaper, drill-press, vises, test plates and a full assortment of hand tools.

The forge shop is equipped with twelve patent, downdraft, Buffalo forges, each having an anvil, sets of tongs, flatters, fullers, etc., also slack tub and coal box. The blast for the forges is supplied by a 40-inch fan, placed in the corner of the shop and connected to the main shaft. The smoke is exhausted by the same fan and forced out at the side of the building. There is also one portable hand forge for use when the machinery is not running. Two work-benches, supplied with vises, stock and dies, taps, files, etc., also a mandrell, sledges and leather aprons complete the equipment in this shop.

The power plant consists of a 30 horse-power Root tubular boiler of latest design and a 35-horse-power Skinner automatic engine of the

latest model, and with all modern improvements. These are installed in the very best manner, and are the best to be had of their kind.

Mathematics.

A thorough knowledge of ordinary mathematics is absolutely necessary in order to pursue the scientific work required by the different departments, accordingly three years in the regular college course are devoted to the subject.

The whole of the Freshman year is given to Algebra.

Geometry is begun in the Fall term of the Sophomore year and completed in the Fall term of the Junior year. The work includes both Plane and Solid Geometry. Special importance is attached to original work and to the applications of Geometry to the problems which the student is likely to meet in his chosen work.

The Winter term of the Junior year is devoted to Trigonometry, the work being confined largely to the solution of plane figures. During the Spring term of the same year the students are given a brief course in Surveying, most of the time being spent in practical work on the farm.

The work in Mathematics is the same for all courses.

Physics.

During the Sophomore year three hours per week are given to lecture and recitation work in Physics, and two hours per week are devoted to the subject during the Fall and Winter terms of the Junior year. The work is illustrated by experiments and practical problems wherever possible. Special importance is attached to the explanation and study of the more common phenomena. During the Spring term of the Junior year four hours per week are devoted to Physical Laboratory work.

Steam Engineering.

This course takes up the study of the details of construction of the best types of engines and boilers with all of their accessories. A considerable part of the time is taken up with the calculations necessary for the design and operation of the same. The work is made more practical by giving the students, in turn, the care of the College engine and boiler.

Mechanism.

This course takes up the study of various mechanisms, together with the calculation and design of some of the most useful forms. Special attention is paid to Gearing and Machine Tools. This course is accompanied by work in the drawing room in machine design.

Architecture.

The work in Architecture begins in the Sophomore year with a course of lectures in methods and materials of construction. This is accompanied by work in the drawing room. This course is intended to familiarize the student with the treatment and uses of the different varieties of lumber, brick, stone, etc., also with the details of framing, outside and inside finishing, especially of houses of moderate cost.

The above course is followed by lectures on the different orders of architecture and their application to modern building practice. The remainder of the work is of the same sort but more advanced, the work being upon the better class of dwellings and unpretentious public buildings.

Plumbing, Heating, Etc.

During the Senior year the class is given instruction in the various methods of house plumbing, in steam and hot water heating, and in the different systems of ventilation as applied to dwellings and public buildings.

Drawing.

One of the most important subjects taken by our students is the free-hand drawing taken during the Preparatory and Freshman years. It not only trains the hand and eye, but it develops the reasoning powers of the students. The work includes the study of lines, perspective shading, sketching of geometrical solids, furniture and plants. There is also special work in lettering and drawing architectural and mechanical subjects.

The first work in mechanical drawing is designed to give the student freedom in the use of instruments and to familiarize him with the application of those principles of geometry which are so essential to the work of the draughtsman. After this preliminary work the student is prepared to take the drawing of either the Architectural or Mechanical Engineering course. In both of these courses the work done in the drawing room is simply the practical application of the principles and general information brought out in the lecture and recitation rooms.

Shop-work.

The work of this department is designed for those wishing to enter the various branches of manufacture and industry, and its aim is to give no more of theoretical engineering work than is essential to men who will enter these industries as workmen and advance to positions as managers, superintendents or business men.

No mechanic can do good work unless he understands how to use his tools and to keep them in good condition. Realizing this the work is so arranged in each of the different courses in shop work so that the student is first taught the use and care of the tools required for that special work through lectures and recitations accompanied by the use of text books.

The student is then required to make a set of models from drawings, afterward to do a certain amount of work from his own design.

The work is so arranged that the principles governing its design and construction are taught in the class room in connection with the practical work which is done in the shop.

Shop work begins with the first year in the Preparatory Department and continues through the whole college course. The work is the same for all courses until the beginning of the Sophomore year.

The work during the two Preparatory and the Freshman years is confined to ordinary joinery work and forging.

The Agricultural students finish their shop work in the Freshman year.

The Architectural students devote the remaining years to wood turning, advanced joinery and cabinet making.

The Mechanical Engineering students devote the remaining three years to advanced forging, chipping and filing and machine-tool work.

1. *Carpentry—Bench-work*—Practice in use of carpentry tools, instruction in joinery, planing, mortising, splicing, framing, etc.

2. *Wood Turning*—Centre and chuck-turning, ornamental cutting, fancy turning.

3. *Pattern Making*—Making of finished patterns and elementary molding, illustrating draft, parting, cores, etc.

4. *Cabinet Work*—Exercises and practice in cabinet work, including paneling, mitre and dove-tail joints, etc.; use of power tools.

5. *Building Construction*—Advanced work in carpentry, including the laying out of rafters, roof trusses, joists, etc., stair building, doors, window frames, etc.

6. *Advanced Building Construction*—Construction of a complete model frame house from student's design and working drawings, the model being constructed to a convenient scale, usually, one-eighth size.

7. *Forging*—Exercises and practice in iron and steel forging, including operations as drawing, bending, forming, upsetting, welding, and the making and tempering of punchers, drills, chisels, lathe tools, springs, etc.

8. *Advanced Forging*—Tool making, tempering, annealing, case-hardening, ornamental iron work, etc.

9. *Chipping and Filing*—Exercises and practice in vise-work, including chipping in cast and wrought iron, surface filing, squaring, fitting, finishing and the scraping of surface plates.

10. *Machine Work*—Exercises and practice in hand-turning in iron and brass on speed-lathes; in straight and taper-turning, boring, fitting, chucking, thread-cutting on engine lathe.

11. *Advanced Machine Work*—Exercises and practice on the lathe, shaper, drill-press, with use of small tools, as drills, taps, dies, reams, counter-borers, etc.; construction of parts of actual machines.

12. *Plumbing*—Practice in soldering and wiping the various types of joints, making bends, traps and other practical work; ventilation, supply-pipes; boilers, tanks, fixtures, etc.

Repair work about the buildings is done by students in this department.

The fact that almost all of our students have had three or at least two years in our Preparatory course, during which time they have spent every afternoon in the week in the shops, gives them considerable manual dexterity by the time they are ready to take up the regular college course. We are therefore not nearly so much handicapped by the lack of mechanical experience on the part of our college students as are the white universities where students enter the college course with no previous shop experience. Our Preparatory School fills to a large extent the place of the secondary manual training high school, the need of which is so strongly set forth in the trade journals of the day.

Department of English.

CHAS. H. MOORE, Head of Department.

The ability to write a clear and elegant English sentence is an accomplishment much to be desired, and it is a recognized fact that English forms an important branch in all well-rounded courses of study.

Therefore the course in this department extends through the entire four years. It is designed to acquaint the students with the essentials of English grammar, the structure of sentences, and so make them thorough English scholars.

To excite and cultivate a taste for good literature, to acquaint the students with the thoughts and writings of the best authors and to form habits of correct expression, a diligent and critical study of standard works containing masterpieces, in prose and poetry, will be required of all students.

The College Library, containing some of the best works in English and American literature, affords splendid facilities for instruction in this department.

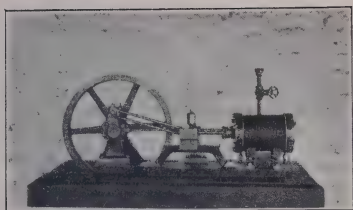
Freshman Class.

Having completed the work of the Preparatory Department, students begin the study of the English Language, Composition and Rhetoric with Lockwood's "Lessons in English" as a text book. The end to be accomplished is to familiarize the student with the structure and arrangement of sentences and the fundamental principles of style. It is designed to enable the student to acquire skill in the logical arrangement of his thoughts, and to express them in a clear and forceful manner.

Selections from Irving, Longfellow, Whittier and Holmes are read as introductory exercises to the study of American literature. Weekly rhetorical exercises.

Sophomore Class.

In the Fall term of this year the work is similar to that of the Freshman year. Beginning with the Winter term the study of practical rhetoric is commenced. Among the subjects receiving attention are:



SMALL ENGINE.



PHYSICS APPARATUS.



LAUNDRY BUILDING.

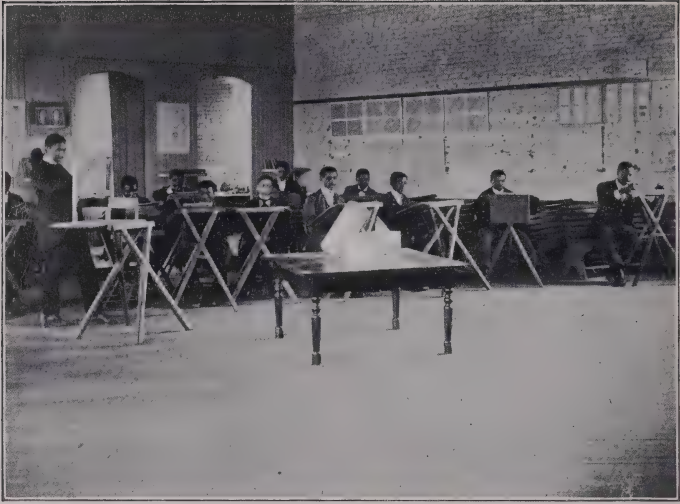


OFFICE DESK.



MINIATURE MODEL HOUSE.

PRODUCTS OF STUDENT LABOR.



FREEHAND DRAWING.



MECHANICAL DRAWING.

Diction, Narration, Exposition, Argumentation, Persuasion, and Figures of Speech.

Written productions of the students are read and criticised in the presence of the class. During the year some of the masterpieces of American authors are studied critically.

Weekly rhetorical exercises.

Junior Class.

The study of rhetoric will be continued and completed at the close of the Fall term of this year, after which the class will begin a brief survey of English and American literature; rhetoric as to invention; biographical studies of authors and of events connected with their literary productions.

As an intimate acquaintance with the Constitution of the United States and of one's own State is recognized as an essential to good citizenship, for this reason, Civil Government is studied by the class in this year; also ethics, that the students may have some knowledge of the duties they owe their fellowman.

Weekly rhetorical exercises.

Senior Class.

Select essays and orations of Webster, Calhoun, Bacon, Pitt, Fox, Macauley, Burke and Gladstone analyzed and discussed; class-room exercises and outside work on assigned topics. Critical thesis on Tennyson, Shakespeare and Milton; review.

The study of logic, both inductive and deductive, will be pursued by the class as an aid to correct reasoning. Practical application of what the student learns in this study will be made in testing the validity of arguments and detecting fallacious reasoning.

The present industrial and financial embarrassment shows the importance of a knowledge of economic principles. For this and many other important reasons, the students of this year will also study Political Economy. The relations of capital to labor, the tariff, bi-metalism and other important questions relating to the welfare of our country will be carefully studied and discussed.

The subject of Psychology will be studied in this year.

Weekly rhetorical exercises.

Department of History.

JAS. B. DUDLEY, Head of Department.

It will be the purpose of this department to treat briefly, but as comprehensively as possible, in ancient and modern history, of the great events which indicate the main highway of man's progress and civilization, especial attention being given by lectures and otherwise to the subject of industrial evolution. By attentive study of those historical links—the causes and effects of leading events which mark great epochs, the chronological order of general history will be presented with the purpose of making impressions upon the student's mind that will excite interest and encourage independent reading and reflection.

As this College was established and is sustained by both State and National Governments, it is under special obligations to train its students to become good and patriotic citizens, and since we must know that which we would love and to which we would be loyal, it will be deemed a special mission of the College to give the history of North Carolina and of the United States as thorough study as possible.

The course begins in the Preparatory Department with the History of North Carolina. After the student has acquired a knowledge of his own State he passes to the History of the United States. In the more advanced classes he takes up the study of European and Oriental civilization, ancient and modern history. Throughout the entire course the choice selections of historical works contained in the College Library will prove a valuable auxiliary to the instructor in awakening interest and stimulating desire for historical knowledge, and students will be encouraged to avail themselves of the facilities at hand.

The Preparatory Department.

JNO. H. M. BUTLER, Principal.

MARY H. PERRY, } Assistants.
JAS. M. JOYNER, }

This department is designed for such persons as are unable to enter the Freshman Class.

The following course is pursued:

Junior Year—Reading, Writing, Spelling, Arithmetic, Geography, Grammar, Drawing, Vocal Music, History and Physical Culture.

Middle Year—Reading, Writing, Geography, Grammar, Physical Geography, Physiology, Drawing, Arithmetic (Written and Mental), Algebra, History, Introductory to Science, Vocal Music and Physical Culture.

Senior Year—English and American Authors, Arithmetic (Written and Mental), General History, Algebra, Grammar, Drawing, Writing, Ethics, Physical Culture, Vocal Music.

All classes take courses in Agriculture. The boys in addition take forging, joinery and wood turning; the girls sewing and cooking.

Upon completing the course satisfactorily the student is given a certificate.

Latin is taught in Middle and Senior classes as an elective subject. Weekly rhetoricals.

Department of Domestic Science.

SOPHIA M. PARKER, Head of Department.

The National life depends entirely upon the individual homes. The home demands the exercise of woman's best powers broadly and carefully trained. The aim of this department is to train the girls in the habits of neatness, thoroughness and gentleness, and to afford training and instruction in the special subjects which must be considered in the daily administration of every home.

Sewing—This course begins with the first year in the Preparatory Department and continues throughout the entire course. Special attention is given to the various stitches, buttonholes, cutting and making children's and ladies' garments, the use of the sewing machine and attachments, also the art of fancy needlework.

Cooking—This course also begins with the first year in the Preparatory Department and continues throughout the entire course. Special attention is given to food economics—the selection of foods with regard to cost and quality.

There is a general demand for persons trained in this special branch and in order to meet such a demand the following course is laid out as one which will enable young women to meet more intelligently the requirements of home and society.

Sewing.

PREPARATORY DEPARTMENT.

First Year—The various stitches, overhanding, running, folding-hem, hemming, stitching, back-stitching, overcasting, patch-work, cutting, and outlining. Flat-fell, French-fell, gussets, gathering and sewing on bands, sewing on tapes, cutting, basting and making aprons, use of machine and hemstitching.

Second Year—Patching, darning, various fancy stitches, drawn work, cutting and making undergarments, children's clothing, buttonholes, overhanded gatherings, binding with braid, hooks and eyes, button loops, and tucking on machine.

Third Year—Preparatory dress making, cutting, fitting and matching colors, drafting by chart, bone-casting, and binding seams.

College Classes.

First Year—Plain and fancy undergarments, fancy needlework, plain dressmaking, drafting by chart.

Second Year—Cutting and fitting by patterns, drafting by chart and making garments.

Third Year—Cutting and fitting by patterns, review of the drawn work and hemstitching and drafting.

Fourth Year—Fancy dressmaking, millinery and embroidery. Review of the previous year's work.

Students will furnish the cloth for dress-making. Cloth is furnished by the College for the Preparatory work. There will be provisions made for those who wish to take a special course in dressmaking.

Cooking and Food Economy.

First Year—Brown gravy, brown beef stew, corn bread, baking powder biscuit, ginger cakes, hash, soup, white sauce, boiled pork and cabbage, vegetables; making and care of fire, and washing dishes.

Second Year—Light bread, frying in deep fat, fresh fish, tapioca pudding, corn muffins, sponge cake, beaten biscuits, smothered chicken, and pan broiling.

Third Year—Roasting, pastry, boiled beef with vegetables, boiled custard, meat pie, salt fish, fruit cake, plum pudding and pound cake.

Fourth Year—Potatoes cooked in various ways, fish chowder, potted meats, broiling over coals, layer cakes, wheat muffins, trying out lard, baked custard, pudding, making sausage.

Fifth Year—Various kinds of jelly, icing for cakes, ice cream, candies, pudding, sauce, waffles, boiled puddings, Graham bread, French dressing.

Sixth Year—Clarifying soup, candies, fancy ices, fish sauce, salads with mayonaise, invalid cookery. Preserving and pickling.

The first and second years' work as above laid out is intended to be done by the Preparatory classes.

Organizations.

The growth of the institution made it necessary for two general literary organizations.

The Agricultural society is known as the "Eclectic Literary Society," the Mechanical as the "Collegian." Membership is optional. The meetings are held bi-weekly.

Eclectic Literary Society.

OFFICERS.

C. C. Hunter	President
E. P. Colson	Vice-President
Lillie B. Wilson	Secretary
Clara B. Butler	Treasurer
C. H. Best	Chaplain
T. H. Hepler	Editor
J. R. Quick	Critic

Collegian Literary Society.

OFFICERS.

E. S. Plummer	President
J. O. Plummer	Vice-President
Estella D. Jones	Secretary
S. Inez Dudley	Treasurer
A. Vivian Dudley	Collegian
J. P. Neal	Critic

Y. P. S. C. E.

The Christian Endeavor Society owes its organization to conditions which the Y. M. C. A. cannot reach. Its work is effective and far-reaching.

OFFICERS.

M. L. Newby	President
Clara B. Butler	Vice-President
Estella D. Jones	Secretary
C. D. Robinson	Treasurer

Y. M. C. A.**OFFICERS.**

J. R. Quick	President
A. P. Henderson	Vice-President
E. F. Colson	Secretary
C. D. Robinson	Corresponding Secretary
R. D. Moore	Treasurer

Athletic Association.

J. H. Green	President
J. O. Plummer	Vice-President
W. F. Robinson	Secretary
T. H. Hepler	Treasurer

List of Students.

POST GRADUATES.

Cunningham, I. S.	Hillsboro
Falkner, E. L.	Warrenton
Joyner, J. M.	Tarboro
Robinson, P. E.	Raleigh
Windsor, W. B.	Reidsville

SENIOR CLASS.

Best, C. H.	Snow Hill
Greene, J. H.	Wilmington
Moore, R. D.	Wilmington
Neal, J. P.	Winston-Salem
Plummer, E. S.	Warrenton
Quick, J. R.	Laurinburg
Robinson, C. D.	Mt. Gilead
Thomas, E. L.	Charlotte

JUNIOR CLASS.

Colson, E. F.	Ansonville
Edwards, G. A.	Bynums

SOPHOMORE CLASS.

Bryant, C. L.	Wilmington
Bullock, Mrs. H. A.	Greensboro
Henderson, A. P.	Hillsboro
Hepler, Thomas	Winston
Little, N. H.	Little's Mill
Perry, A. A.	Fayetteville
Quinn, William	Gastonia
White, W. A.	Hillsboro



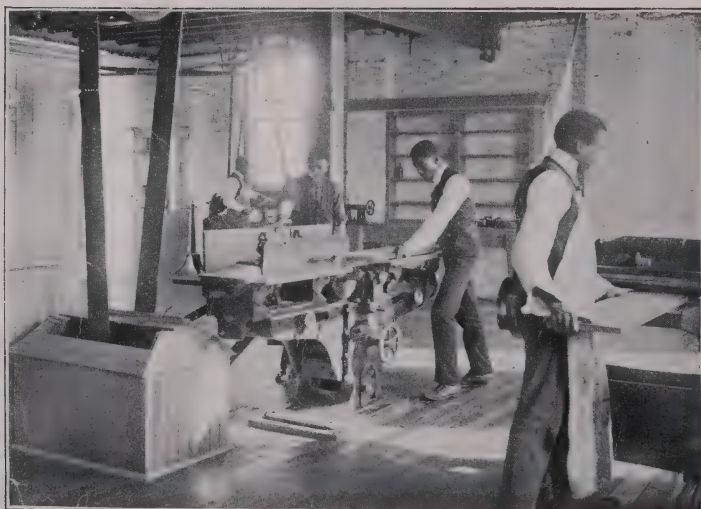
FORGING.



MACHINE WORK.



WOOD TURNING.



POWER WOOD SHOP.

Freshman Class.

Dudley, Vivian A.	Wilmington
Latta, Carrie B.	Hillsboro
Mebane, Albert L.	Greensboro

Specials.

Ames, Charlie C.	Durham
Butler, Clara B.	Elizabeth City
Edwards, Robert L.	Bynum
Garrett, Mrs. F. A.	Greensboro
Grimes, Francis E.	Asheville
Holcombe, A. J. P.	Wilmington
Hunter, Charles C.	Raleigh
McLean, W. H.	Asheville
Newby, Martin L.	Elizabeth City
Plummer, John O.	Warrenton
Thomas, J. G.	Wilmington
Williston, F. O.	Fayetteville
Williston, James T.	Fayetteville

Senior Preparatory Class.

Alston, Sarah V.	Raleigh
Carter, Alma J.	Reidsville
Colley, John C.	Durham
Cotton, Lillian	Greensboro
Custon, John W.	Wilmington
Davis, L. E.	Wilmington
Davis, Mary O.	Hillsdale
Davis, R. T.	Wilmington
Dudley, S. Inez	Wilmington
Dunn, John H.	Wake Forest
Dunham, P. W.	Eulonia, S. C.
Evans, George	Raleigh
Farrington, Bitha L.	Greensboro
Hall, William H.	West Raleigh

Hawkins, Frank L.	West Raleigh
Haywood, Burk	West Raleigh
Hooper, T. H.	Laurinburg
Jeffreys, Annie G.	Jackson
Jones, Carrie E.	Raleigh
Jones, Estelle D.	Chapel Hill
McKenzie, Sarah P.	Greensboro
McLendon, J. B.	Ansonville
Nunnally, Thomas M.	Yak, Va.
Pritchett, Nannie L.	Greensboro
Quick, Knox S.	Laurinburg
Rayner, N. M.	Raleigh
Richardson, W. F.	Wilmington
Richie, Florence V.	Abbeville, S. C.
Robinson, M. F.	Laurinburg
Shepard, W. L.	West Raleigh
Simmons, Victor W.	Statesville
Smitherman, W. A.	Greensboro
Strong, Andrew J.	Matrimony
Willis, Josie H.	Wilmington
Williams, S. M.	Warrenton
Wilson, Lillie B.	Hillsboro
Witherspoon, Annie F.	Raleigh
Wright, Annie C.	Danville, Va.
Wooten, David	Princeville

Middle Preparatory Class.

Alston, A. A.	Raleigh
Blackwell, Lucy A.	Greensboro
Coltrain, Jones A.	Liberty
Cooper, J. L.	Warrenton
Davis, C. G.	Coltenville
Dendy, Carrie H. A.	Laurens, S. C.
Donnell, Australia E.	Greensboro
Edwards, Mattie L.	Greensboro
Ellis, J. R.	Charlotte
Farrish, Janie D.	Greensboro
Fitzgerald, Samuel B.	Durham
Finley, Arthur	Asheville
Forest, G. G.	Lander's Mill

Gay, Daisy R.	Jackson
Gray, R. T.	Greensboro
Gwyn, Cecil B.	Greensboro
Hankins, O.	Wilmington
Hawkins, S. Walker	Winston
Holley, Mary A.	Hertford
Hopkins, W. F.	Franklinton
Howard, John G.	Raleigh
Jackson, Nathaniel E.	Carthage
Jones, Georgiana	Raleigh
Leach, Giles E.	Pervis
Lipscombe, Hattie B.	Asheville
Logan, Erkwood	Hendersonville
Lowe, John W.	Reidsville
Lowe, Robert L.	Reidsville
Lyons, Henry A.	West Raleigh
Martin, W. L.	Greensboro
McNair, Frank	Laurinburg
Merrick, Annie	Greensboro
Morehead, Sadie	Greensboro
Morris, Katie F.	Asheville
Palmer, Dinah	Churchill
Pemberton, M. J.	Mt. Gilead
Preston, Daisy B.	Savannah, Ga.
Queen, James H.	Wilmington
Rankin, A. E.	Greensboro
Reeves, W. V.	Glendon
Reid, Effie M.	Wadesboro
Reynolds, Mattie S.	Asheville
Rives, William H.	Beaumont
Shaw, Ellen E.	South Gaston
Shell, Alice P.	Greenback
Trice, Emma L.	Greensboro
Tucker, Josephine	Greensboro
Ward, F. H.	Warrenton
Watson, Della A.	Grove Hill
Watson, E. B.	Goldston
Whitted, J. B.	Hillsboro
Williams, Pattie A.	Halifax
Womble, J. L.	Gulf

JUNIOR PREPARATORY CLASS.

Alston, Orus	Greensboro
Avent, C. J.	Osgood
Bigelow, Meggie D.	Yanceyville
Boykin, C. D.	Wilmington
Carter, S. W.	Greensboro
Creedy, Annie L.	Gulf
Curtis, C. S.	West Raleigh
Dunlap, W. J.	Ansonville
Edwards, S. James	Raleigh
Emmerson, Aaron	Greensboro
Emmerson, Flossie V.	Greensboro
Fairley, J. R.	Pervis
Falkener, J. C.	Warrenton
Faucett, Annie.	Shallowford
Fonville, Herman	Goldsboro
Hill, Susie F.	Germanton
Houze, Georgiana	Oxford
Jefferson, C. B.	Warrenton
Jefferson, F. W.	Asheville
Johnson, A.	Greensboro
Johnson, Creola	Greensboro
King, J. L.	Alfordsville
Lipscombe, Eddie H.	Asheville
Little, W. T.	Ansonville
Luther, Grant	Hover Hill
Martin, Mabel.	New Berne
Martin, Nannie L.	Reidsville
Mathews, Annie A.	Apex
Merritt, Geneva	Greensboro
Merritt, Henry	Greensboro
Moore, Lucy	Asheville
Newby, Maria F.	New Berne
Oldham, G. F.	Greensboro
Ramseur, Luther.	Newton
Reid, James F.	Wadesboro
Sanders, Bessie	Wilmington
*Short, V. B.	Greensboro

Stewart, Needham	Laurinburg
Stokes, Lee A.	Farmers
*Thompson, Louvenia	Asheville
Thornton, T. C.	Raleigh
Washington, Susie	Goldsboro
Williams, Henry	Raleigh

* Deceased.

List of Graduates.

1899.

- Cheek, W. T. C. (B. S.) Lawrenceville, Va.
Architect, St. Paul's Normal School.
- Cunningham, I. S. (B. S.) Greensboro, N. C.
Instructor in Mechanical Department A. and M. College.
- Curtis, A. W. (B. Agr.) West Virginia Institute
Head of Agricultural Department West Virginia Colored Institute.
- Falkner, E. L. (B. Agr.) Biltmore, N. C.
Biltmore Farms.
- Joyner, J. M. (B. Agr.) Greensboro, N. C.
Teacher in Preparatory Department A. and M. College.
- Robinson, P. E. (B. Agr.) Hillsboro, N. C.
Occonneechee Farm.
- Watson, A. (B. S.) High Point, N. C.
Head of Mechanical Department Normal and Industrial School.

The Agricultural College ===== Register =====

The State Agricultural and Mechanical College

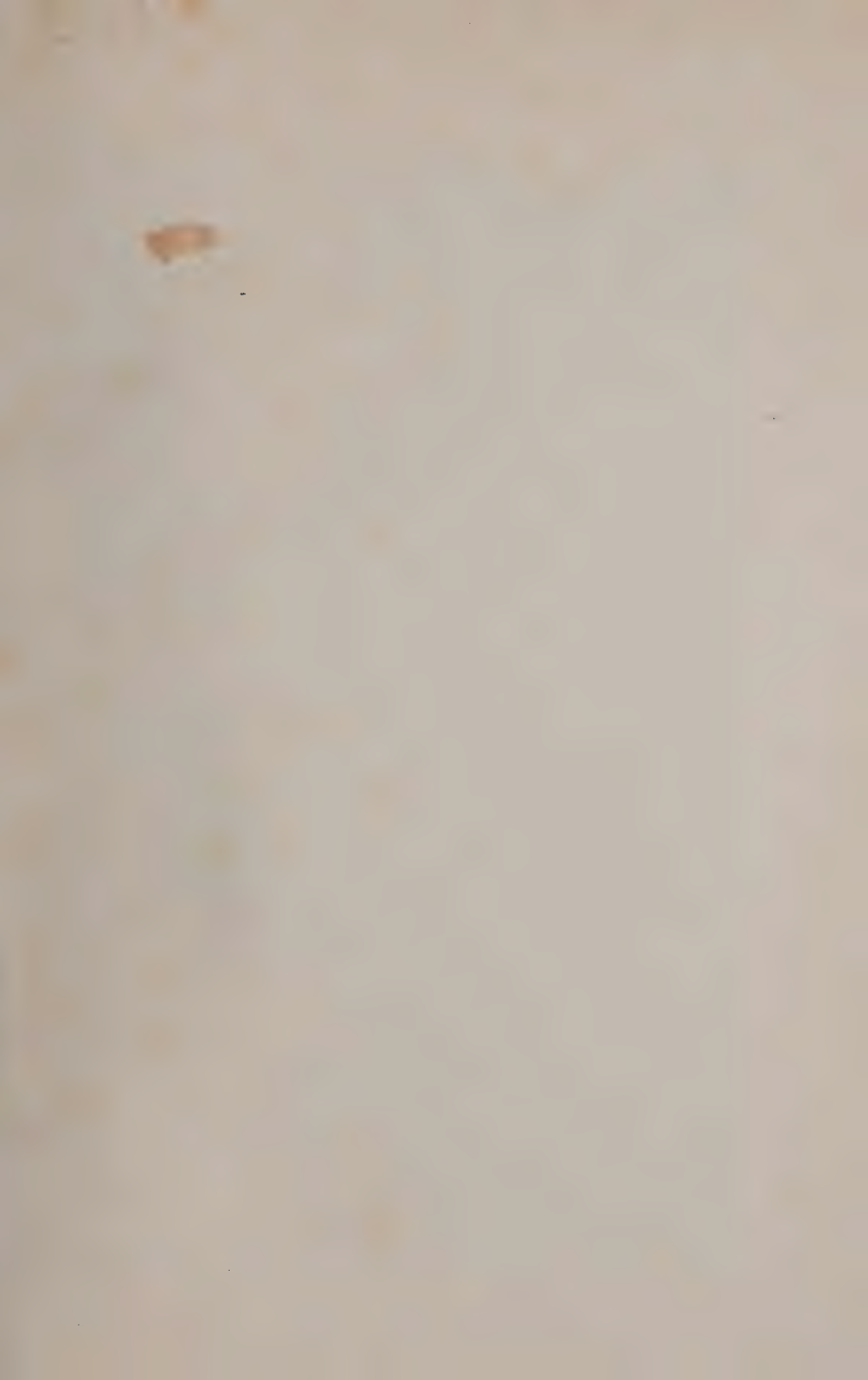
Greensboro, N. C.



A young man who cannot spend time to examine
this Catalogue, pays a high price for the time saved.

Catalogue 1904-1905

Published by the College, May 1904.





NORTH DORMITORY.

AGRICULTURE AND ADMINISTRATION BUILDING.
CLASS IN MARKET-GARDENING.

MECHANICAL BUILDING.



NORTH DORMITORY.



MECHANICAL BUILDING.

Tenth Annual Catalogue

OF THE

State Agricultural and Mechanical College

FOR THE

Colored Race,

Greensboro, North Carolina.

1904-1905.

GREENSBORO, N. C.:

J. M. REECE & COMPANY, BOOK AND JOB PRINTERS

1904.

Calendar 1904-1905.

SEPTEMBER 1, 2—Entrance Examinations and Examinations for removal of conditions.

SEPTEMBER 3.—Registration of all students.

SEPTEMBER 5—Fall Term begins.

NOVEMBER 25—Fall Term ends.

NOVEMBER 28—Winter Term begins.

FEBRUARY 27—Spring Term begins.

APRIL 23—Baccalaureate Sermon.

APRIL 27—Commencement.

Holidays.

THANKSGIVING DAY.

ARBOR DAY.

CHRISTMAS VACATION—Dec. 23, 1904—Jan. 2, 1905.

DOUGLAS' BIRTHDAY.

LINCOLN'S BIRTHDAY.

WASHINGTON'S BIRTHDAY.

MORRILL'S BIRTHDAY.

Board of Trustees.

First Congressional District—W. R. WILLIAMS.

Second Congressional District—W. A. DARDEN.

Third Congressional District—W. H. HAMMOND.

Fourth Congressional District—J. B. PHILLIPS.

Fifth Congressional District—J. I. FOUST.

Sixth Congressional District—D. D. CARLYLE.

Seventh Congressional District—W. L. KLUTTZ.

Eighth Congressional District— _____.

Ninth Congressional District—J. O. ALEXANDER.

Tenth Congressional District—M. W. BELL.

Members-at-Large.

M. C. S. NOBLE.

GEORGE T. DUNLAP.

A. M. SCALES.

J. L. CURRIE.

H. C. TYSON.

Officers of Trustee Board.

A. M. SCALES, CHAIRMAN, Greensboro, N. C.

S. A. KERR, SECRETARY AND TREASURER, Greensboro, N. C.

Faculty and Officers for 1904-1905.

JAMES B. DUDLEY, A. M., PRESIDENT.

Shaw University; A. M., Livingston College. Teacher in Public School 1876-1880. Principal Peabody Graded School 1880-1896. Present position since 1896.

JOHN H. BLUFORD, B. S.,

PROFESSOR OF AGRICULTURE AND CHEMISTRY.

Howard University. Formerly teacher in Washington Public School 1898-1899; "University Scholar in Chemistry." Graduate School, University of Pennsylvania 1899-1900; Graduate student, Chemistry and Agriculture, Cornell University 1900-1901; Third Assistant Principal, Instructor in Latin and English, Summer High School, St. Louis, Mo., 1901-1902. Present position since 1902.

ADAM WATSON, B. S.,

PROFESSOR OF MECHANICAL DRAWING AND ARCHITECTURE.

A. & M. College, Greensboro, N. C. High Point Normal and Industrial School 1890-1901; Assistant in Mechanical Department A. & M. College 1901-1902. Present Position 1902.

J. W. LANDRETH,

HEAD OF THE DEPARTMENT OF INDUSTRIES.

CHARLES H. MOORE, A. M.,

PROFESSOR OF ENGLISH.

Amherst College, Massachusetts. Principal Graded School, Greensboro, N. C., 1878-1880. A. M., Amherst College 1885. Chair of Ancient Language Bennett College 1885-1891. Present position since 1897.

S. P. SEBASTIAN,

ASSISTANT ENGLISH DEPARTMENT.

P. E. ROBINSON, A. AGR.,

ASSISTANT IN AGRICULTURE AND VETERINARY SCIENCE.

A. & M. College, Greensboro, N. C. Present position since 1901.

W. F. ROBINSON, B. AGR.,

FLORIST AND ASSISTANT IN HORTICULTURE.

A. & M. College, Greensboro, N. C. Present Position since 1903.

S. A. KERR,
SECRETARY AND TREASURER.

* _____

TINNER.

* _____

INSTRUCTOR IN BRICKLAYING AND PLASTERING.

C. N. EVANS,
BLACKSMITHING.

W. N. NELSON,
CARPENTERING.

* _____

SHOEMAKING.

JUNIUS ROOKS,
STEWARD.

J. ELMER DELLINGER, M. D.,
COLLEGE PHYSICIAN.

Shaw University.—Formerly Professor Physiology and Chemistry in Shaw University. Resident Physician and Surgeon in Charge Leonard Medical Hospital, and late Major and Surgeon of Third North Carolina Volunteer Infantry, U. S. A.

*To be appointed.

The Agricultural and Mechanical College

FOR THE COLORED RACE.

This College was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, one from each Congressional District and five at large, who are elected by the General Assembly for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the president, instructors, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institution for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and

support of Colleges for the benefit of agriculture and mechanic arts, to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematical, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The college also receives an appropriation from the State nearly equal to the Federal appropriation, for general maintenance, which cannot be provided for under the laws governing the use of the Federal appropriation.

The citizens of Greensboro donated twenty-five acres of land and \$8,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year. A large dormitory, which cost \$6,000, a complete laundry and a green-house have been added.

In the summer of 1895, the Mechanical Building, a large two-story brick structure, 38 by 119 feet, was erected at a cost of about \$9,000. This building, by the expenditure of about \$7,000, has been supplied with probably the finest and most modern equipments of any school in the State.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them and leaders of thought, to the grand opportunities offered by the State and aided by the United States, to the colored youth to thoroughly equip themselves for the battle of life and prepare to successfully work their way as "breadwinners" and secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.

Full 80 per cent. of the colored people in this State live in the country and subsist on agriculture. The future of the colored race in the South depends upon the owner-

ship of farm lands and their intelligent and skillful treatment by colored farmers. This field is free from competition and race feeling. Owners of large tracts of land now yielding nothing will be only too glad to rent them to the skilled farmer who graduates from an agricultural college, and also provide him with stock and implements of husbandary.

The young man who leaves this College, with honor, a good character and a well-trained mind; who is familiar with science and art relating to his calling in agriculture, mechanics or any of the trades, will not be compelled to canvass the country seeking employment. Capital will be looking for him to place him in charge of lands and stock, to handle machinery and direct unskilled labor. Wherever skilled labor is found among producers, turning the wheels of industry that increase the wealth of the world, there will be found graduates of the Agricultural and Mechanical College.

North Carolina is an agricultural State. Her manufacturing interests are increasing in a wonderful manner; her mineral resources are great, and the future of wealth lies in the hands of men who will guide her plow, care for her live stock, economically use her forests, drive her machinery, harness up her water powers and manufacture her iron and other products. The men who can do this *best* will be those who will qualify themselves for the work by a course in the Agricultural and Mechanical College.

There can be no rivalry between this College and other institutions of learning for the colored race in North Carolina. The paths to be pursued lead in different directions.

The Agricultural and Mechanical College for the Colored Race, is unsectarian, and is under the control of no particular denomination. Religious and moral training will receive the closest attention, and students will be required to attend churches of which they are members.

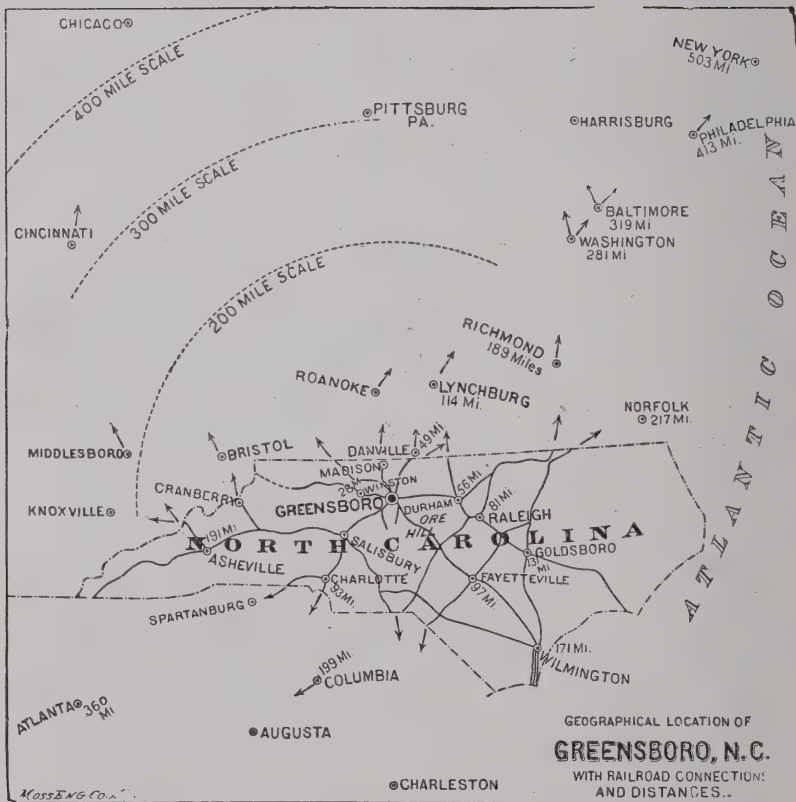
Ministers of all denominations are invited to interest themselves in the religious welfare of the College.

The College, broad in its purpose, practical in its work, elevating in its influences, is intended to assist and strengthen the colored people in *all* their efforts for industrial and intellectual advancement. As such, its peculiar mission must commend it to the intelligent colored men and women of the State, from whom the Trustees and Faculty confidently expect such sympathy and support as will enable them to make the College of inestimable value to the people for whom it was instituted, as well as to the government by which it is fostered.

Location.

It is most fortunate for the colored people that their Agricultural and Mechanical College was located in the prosperous and growing city of Greensboro. Its unsurpassed railroad facilities place it in rapid and direct communication with nearly all sections and make it the most accessible town in the State. From almost every section of the State Greensboro can be reached without change of cars. With the North Carolina Railroad, the Northwestern North Carolina Railroad, the main line of the Southern Railway, and the Atlantic and Yadkin Railway, Greensboro is a railroad centre, with forty daily train arrivals and departures, which add greatly to the comfort and convenience of students and the traveling public generally.

Possibly nowhere in the State do as kindly inter-racial feelings exist and as friendly an attitude on the part of the white citizens toward Negro education obtain as among the liberal-minded people of Greensboro. On every hand local sentiment is found to be kind, encouraging and responsive. Parents, educators and public men generally can possibly more confidently appreciate the friendly and liberal feeling prevailing in Greensboro by reverting to



the significant fact that when the question of subscribing \$8,000 for the location of this institution in Greensboro was submitted to its citizens, but one man voted in opposition thereto.

Admission.

The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 16 years of age; must understand fairly well the forms and rules of the English language; must be familiar with arithmetic, and have a knowledge of geography and history.

Students who have completed the eighth grade in the grammar schools will be admitted without examination.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

Tuition.

Tuition is one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

Expenses

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise or guarantee can be made in advance to furnish such work.

Positively no student will be allowed to enter any department of the College without paying in CASH the first month's expenses, as stated below.

No student should expect to enter any department of the College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Tuition, per month.....	\$1.00
Lodging—use of room, bedding, etc., per month....	1.00
Board, per month.....	5.00

SPECIAL PAYMENTS.

Incidental Deposit	\$1.00
Laboratory Fee, per term.....	.25
Workshop Fee, per term, (see Mechanical Department).	

Dining Hall Fee, per year	1.00
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These charges are payable strictly in advance.

Any student not paying the charges exacted by the College will be excluded from all classes until settlement is made.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, workshops and dining-hall.

In addition to the above expenses the cost of text-books must be considered. This will amount to about \$10 per year.

Free tuition or county students will pay \$1.00 per month less than the above.

Students who are absent for less than two weeks will not be allowed a reduction of charges.

Board, lodging, tuition, and incidental fees must be

paid to the Treasurer before the rooms are assigned and tickets of admission to class-rooms, work-shops and dining-hall are issued.

Supplies.

Each student must bring a hairbrush and comb, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit \$1.00 to cover any charges which may be made against him for damage done.

From the standpoint of neatness and economy in dress, each student should supply himself with a regulation uniform as soon as convenient. These uniforms, including cap, which are of a very neat design, can be purchased through the college for \$12.50.

Rules Governing Classification.

I. Regular students must take a minimum of fifteen hours of credit work per term; at least three of which shall be industrial or manual training work.

II. Examinations for the removal of conditions will be held on the 1st and 2d of September, and at no other time than the regular term examination periods.

III. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably. Students will not be promoted from one class to a higher class who have more than two conditions in any preceding class.

IV. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

V. Any student failing to secure 50 per cent. of the total marks obtainable during any term, will sever his

connection with the College and be allowed to return the following session.

Graduation.

Students graduating from the Trade School Course are entitled to Certificates.

Students are entitled to a Diploma of the College upon the completion of the prescribed course.

Candidates for graduation from the College, in addition to the work outlined in the Catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible persons.

Degrees.

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Agriculture.

Students graduating from trade course, on completion of all the science courses of the College, shall be entitled to the degree of Bachelor of Science.

General Information.

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 cents per hour, for which they can get credit each month at the time of their advance payment.

Students who have shown themselves exceptionally efficient, willing and trustworthy workers may, at the discretion of the head of department, receive a maximum rate of $12\frac{1}{2}$ cents per hour. Students receiving aid by labor which they may secure at the College are requested to observe: (a) That credit on school expenses and not money, will be allowed for student labor, except when such exceed his school expense; (b) that credit for stu-

dent labor will be allowed only on account of board, lodging and tuition; (c) that credit cannot be transferred from one student to another.

The Department of Industries operated by the school affords opportunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations, to be found on another page of this Catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

There are two flourishing literary societies, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. While the Faculty, by presence and advice, will seek to encourage these societies, membership will be optional. The Faculty will also encourage the organization of technical societies, in which special objects in connection with agriculture, mechanics and chemistry,

will be considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done, with safety, as the College cannot, nor does it desire to, wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

This industrial part of each course of instruction applies to all students, *and none will be excused therefrom.*

Library and Reading Room.

A large and convenient room on the second floor in the main building has been arranged for a Library and Reading Room. The books have been purchased with great care and new ones are being added from time to time.

Col. T. B. Keogh, a former member of the Board of Trustees, made a valuable donation of books to the Library.

Reading rooms are also provided in the Agricultural and Mechanical buildings, where technical journals and books are kept for the convenience of students in these departments.

The Reading Room and Library tables are supplied with some of the best periodicals and the leading newspapers of the State. The students of the College are allowed to borrow books, periodicals and papers under necessary limitations. The Library and Reading Room is open every week day from 9 a. m. to 1 p. m., and from 3 to 6 p. m.

Industrial Museum.

An Industrial Museum has been started and already valuable material has been collected. A number of donations have been made by several firms. We are especially indebted to the Standard Oil Company, of Chicago, Ill., for important samples illustrating the manufacture of gasoline, petroleum and lubricating oils of all grades; also to the German Kali Works for typical potash salts from the famous Stassfurt mines in Germany. The American Enameled Brick and Tile Company have also sent us a number of fine specimens of tile, brick and terra cotta goods. Specimens of students' work have been contributed by the various departments each month.

Rules and Regulations.

1. The signal for rising will be given at 5:45 a. m. Dressing and arranging rooms, 5:45 to 6:30 a. m. Breakfast 7:00 to 7:30 a. m. Morning session, 8:30 to 12:30 p. m. Chapel 12:30 to 1 p. m. Dinner from 1:00 to 2:00. Afternoon session, 2 to 5 p. m. Recreation, 5 to 6 p. m. Supper 6 to 6:30 p. m. Study, 6:30 to 9:30 p. m. Retiring signal, 9:45 p. m. Lights out, 10:00 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or to indulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Mendacity or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all specific recreations, class and instruction work. Tardiness, or absence from these duties, will, when

not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings, or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect College duties, or who engage in drinking, card playing and other vices, or who absent themselves from College grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious and meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their children or wards to attend.

7. No student will be allowed to have upon his person, in his room or in the College buildings, or upon or in the neighborhood of the College grounds, any deadly weapon. A student in whose possession such a weapon is found will be expelled from the College.

8. The use of tobacco, spirituous, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of, the College grounds, or in the buildings. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen, store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in

act or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory building.

12. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands made by any member of the Faculty shall be held guilty of contempt of authority and punished accordingly.

13. No student will be retained after he has received one hundred demerits in one year.

14. Any student receiving an aggregate of thirty-three demerits during the Fall term; thirty-four demerits during the Winter term, or thirty-three demerits during the Spring term, will be dismissed from the College.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishonesty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

By order of

THE BOARD OF TRUSTEES.

Religious Culture.

While the College is not a denominational institution, proper attention is given to the cultivation of a broad, liberal Christian spirit. Short devotional exercises are held each evening, which are attended by the boarding students. At 12:30 each school day short devotional exercises are attended by all students. In the direction of religious culture, in addition to these very brief meetings and the fuller meetings of the Y. M. C. A., and the A. & M. College Sunday School, during the past session we have enjoyed a splendid series of instructive and spiritual sermons, for which we are indebted to the following named reverend gentlemen:

Rev. S. S. Sevier, Congregational Church, Greensboro.

Rev. S. J. W. Spurgeon, A. M. E. Z. Church, Greensboro.

Rev. S. B. Turrentine, Methodist Episcopal Church, Greensboro.

Rev. M. L. Harvey, B. D., Providence Church, Greensboro, N. C.

Outline of Course of Study.

FIRST YEAR CLASS—FALL TERM.

A. M.—Arithmetic, 5; English, 5; Carpentry and Joinery, 5; Drawing, 5. P. M.—Agriculture, 5; Commercial Geography, 5.

WINTER TERM.

A. M.—Arithmetic, 5; English, 5; Carpentry and Joinery, 5; Drawing, 5. P. M.—Agriculture, 3; Chemistry, 2; Commercial Geography, 5.

SPRING TERM.

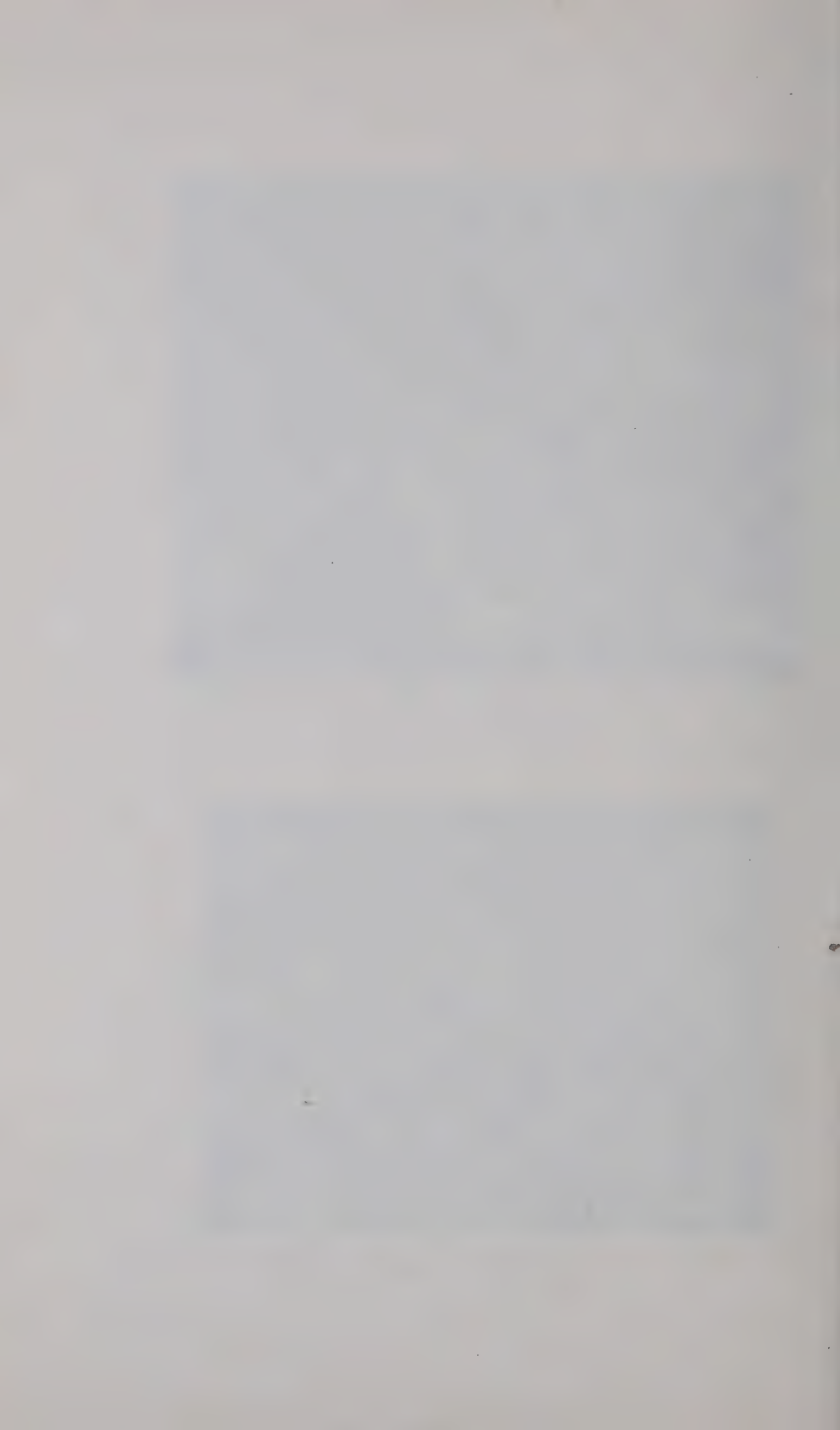
A. M.—Arithmetic, 5; English, 5; Carpentry and Joinery, 5; Drawing, 5. P. M.—Physiology, 5; Materials of Construction, 5.



CLASS IN GENERAL CHEMISTRY.



SOIL AND FODDER ANALYSIS.



SECOND YEAR CLASS—FALL TERM.

A. M.—Arithmetic, 5; English, 5; Physics, 5; Physiology, 5. P. M.—Drawing, 2; Shop, 3.

WINTER TERM.

A. M.—Arithmetic, 5; English, 5; Physics, 5; Dairying, 5; Bookkeeping, 2. P. M.—Drawing, 2; Shop, 3.

SPRING TERM.

A. M.—Algebra, 5; English and History, 5; Chemistry, 5; Dairying, 2; Market Gardening, 3. P. M.—Drawing, 2; Shop, 3.

THIRD YEAR CLASS—FALL TERM.

A. M.—Algebra, 5; Chemistry, 5; English and History, 5; Butter-making, 2; Bacteriology, 3. P. M.—Drawing, House Planning, 3; Shop, 3.

WINTER TERM.

A. M.—Algebra, 5; English, 5; Veterinary Science, 5; Chemistry, 2; Agricultural Bacteriology, 5. P. M.—Drawing, House Construction, 3; Heating and Ventilating, 2; Shop, 3.

SPRING TERM.

A. M.—Geometry, 5; English, 3; Chemistry, 2; Physical Geography, 5; Veterinary Science, 5. P. M.—Drawing, Estimates and Contracts, 3; Heating and Ventilation, 2; Shop, 3.

FOURTH YEAR CLASS—FALL TERM.

A. M.—Geometry, 5; Chemistry, 5; Drawing, 5; Shop, 5. P. M.—Breeding, 5; Political Economy, 5; Entomology, 5.

WINTER TERM.

A. M.—Geometry, 5; Feeds and Feeding, 5; Drawing, 3; Mechanism, 2; Shop, 5. P. M.—Breeding, 5; Chemical Laboratory, 5.

SPRING TERM.

A. M.—Trigonometry and Surveying, 5; Plant Diseases, 2; Drawing, 3; Shop, 2; English, 3. P. M.—Agricultural Physics, 3; Botany, 2.

Department of Agriculture and Chemistry.

J. H. BLUFORD, *Head of Department.*

P. E. ROBINSON, *Assistant.*

W. F. ROBINSON, *Florist.*

In this department thoroughly practical instruction is given in the various arts and sciences pertaining to agriculture, so as to enable the student to intelligently understand the nature of soils, fertilizers, plant growth, feedings, breeding, farm drainage, methods of cultivation, plant and animal diseases, etc. We aim to train not only the hand and the eye, but we endeavor also to train the mind; in other words, we train the youths to become rational farmers.

All our class-room work finds its complement either in the field, the garden, the green-house, the orchard, the barn, the dairy, or the chemical laboratory.

EQUIPMENT.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as several different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn harvester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for butter making, such as United States Cream Separator, seven Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, etc., thus enabling us to offer the very best course in butter making. Presumably apparatus and utensils for cheese making will be added the next session.

A ninety-ton silo has also been erected for which silage is raised every year. A St. Albans Shredder is used for



DAIRY AND BARN.

cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

The farm is stocked with a splendid herd of thirty-five pure bred and grade Jersey cows, which will be increased just as soon as circumstances will allow.

Different crops, such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wurzel, potatoës, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experiences in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on, on the farm, illustrating the effect of different methods of cultivation and fertilization on different crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The green-house is maintained to aid the student in the study of botany and care of flowers. Instruction is also given in the management of a green-house on a commercial scale.

Market gardening is practiced on a small scale for the purpose of giving the student practice in the management of early truck lands.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recomposition of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so complete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the

lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and accessories, an Atwood's machine, Port Lummere and Stereoptican for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases, Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Lyden jars for induction and distribution of electricity, compound microscope, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration with the stereoptican or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball bearing balance, 50 cc. flasks with ground glass stoppers drawn out to an open capillary tube for specific gravity work; brass tubes $12\frac{1}{2} \times 1\frac{7}{8}$ inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture. a set of brass tubes $16 \times 1\frac{7}{8}$ inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five glass tubes $30 \times 1\frac{7}{8}$ inches inside measurement for determining the capillary attraction of soils.

The department will add shortly a soil compacting machine and apparatus to show the percolation of air and the behavior of gases toward soil.

A detailed description of the courses offered by this department follows:

Description of Courses.

A. Industrial Courses—Practical Horticulture.

FALL TERM—MR. W. F. ROBINSON.

(Two hours practice work in Industrial Courses count one hour's credit.)

COURSE I.—GREENHOUSE MANAGEMENT. Three credits.

Required course III English. First year students.

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms.

WINTER TERM—MR. W. F. ROBINSON.

COURSE II.—PROPAGATION OF PLANTS. Three credits. Required courses I Industrial and III English. Given alternately with Course III.

Practice is given in making cuttings, in potting, rooting, grafting, budding, etc. Each student is required to make at least 2,000 cuttings from twenty different kinds of plants and to root and pot same. He is also taught how to prepare various fungicides and insecticides, how and when to apply them.

SPRING TERM—MR. W. F. ROBINSON.

COURSE III.—GARDENING UNDER GLASS. Two credits. Required courses I Industrial and III English.

Such plants as lettuce, beans, cucumbers, egg plant, tomatoes, etc., are grown under glass, and the student will be required to care for them and become thoroughly familiar with every detail of forcing plants for the winter and very early spring market.

SPRING TERM—MR. W. F. ROBINSON.

COURSE IV.—MARKET GARDENING. Two credits. Required courses I Industrial and III English.

Practice is given in transplanting plants from the

green house or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale.

Each student is assigned a plat 10 x 10 feet, which he controls exclusively during the course. He prepares the ground and plants his plant under the direction of the instructor.

FALL TERM—MR. P. E. ROBINSON.

COURSE V.—CARE OF LIVE STOCK. Two credits. Required course III English.

The student is required to go into the various barns of the College and obtain practice in feeding cows, horses, hogs, chickens, etc.; to learn various methods of feeding and make records of feeding experiments, to study the milk records and compare same with the various types of dairy cows.

WINTER TERM—MR. P. E. ROBINSON.

COURSE VI.—MILK AND CREAM TESTING. Two credits. Required course III English.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in the College. He also becomes expert in testing cream for acidity according to at least two different methods.

Lectures and recitation work will be given on the composition, secretion and production of milk. Text: *Milk and Its Products.*—*Wing.*

FALL TERM—MR. P. E. ROBINSON.

COURSE VII.—BUTTER MAKING. Two credits. Requires courses VI Industrial and III English.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc.



MILK TESTING.



CLASS IN SOIL PHYSICS.

SPRING TERM—MR. P. E. ROBINSON.

COURSE VIII.—MANAGEMENT OF DAIRY. Three credits.

Required courses VII Industrial and III English, I and II B. C.

The student is expected to go into the dairy and take charge of the work under the supervision of an instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making. He is also expected to keep the dairy accounts and records.

SPRING TERM—MR. LANDRETH.

COURSE IX.—MANAGEMENT OF FARM. Three credits. Required courses VIII Industrial and VI English.

Practice is given in directing the work on the College farm under the supervision of the foreman of the farm.

B. Courses in Agriculture.

WINTER TERM—PROF. BLUFORD.

COURSE I.—ELEMENTARY PRINCIPLES OF AGRICULTURE.

Three credits. Open to all. Daily.

This term's work is designed to give the student a sort of a bird's eye view of the whole field of agriculture in an elementary way. It will be freely illustrated by experiment in the laboratory. Text: "Elementary Principles of Agriculture."—*Burkett, Stevens and Hill*.

FALL TERM—PROF. BLUFORD.

COURSE II.—PHYSIOLOGY. Three credits. Open to all.

In addition to reiteration work, the student is required to cut up one or more animals and study the various organs in detail. Text: Foster's Ele. of Physiology.

SPRING TERM—PROF. BLUFORD.

COURSE III.—PHYSICAL GEOGRAPHY. Five credits. Open to all.

The course is illustrated by means of lantern slides and experiments. Text: Tarr's Physical Geography.

FALL TERM—MR. P. E. ROBINSON.

COURSE IV.—BREEDING. Two credits. Required courses III English and II Agriculture.

Such subjects as atavism, variation, selection, heredity, line breeding in and inbreeding are discussed. Collateral reading required. Text: Breeding.—Shaw.

FALL TERM—PROF. BLUFORD.

COURSE V.—BACTERIOLOGY. Three credits. Required courses II Horticulture and I Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work.

WINTER TERM—PROF. BLUFORD.

COURSE VI.—AGRICULTURAL BACTERIOLOGY. Five credits. Required course VI Agriculture.

The relation of bacteria to the soil and the manure heap, to the ripening of cream and cheese, to various diseases, etc., is thoroughly discussed. Text: Agricultural Bacteriology.—Conn.

SPRING TERM—MR. P. E. ROBINSON.

COURSE VII.—ENTOMOLOGY. Three credits. Required courses II Horticulture and VI English.

The subject is taught by means of lectures and the student is required to read up on topics assigned him by the instructor. The most common insects and insecticides are studied.

SPRING TERM—MR. P. E. ROBINSON.

COURSE VIII.—FORAGE CROPS. Three credits. Required Course VI English.

Lectures are given on the adaptability of the various crops that can be successfully and profitably grown in North Carolina to special soils, methods and seeding;

preparation of seed bed and pasturing are also discussed. Collateral reading required.

SPRING TERM—PROF. BLUFORD.

COURSE IX.—PLANT DISEASES. Three credits. Required course VII Agriculture.

Lectures and laboratory work. Common diseases, such as the cereal nests and insects; diseases of cotton, tobacco and fruit trees are studied with the aid of the compound microscope.

WINTER TERM—PROF. BLUFORD.

COURSE X.—FEEDING. Five credits. Required courses III Agriculture and V and VI Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, market and food value of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding ratios for the various farm animals are carefully considered. Collateral reading required. Text: Feeding of Animals.—*Jordan*.

FALL TERM—MR. P. E. ROBINSON.

COURSE XI.—VETERINARY SCIENCE. Three credits. Required course XI Agriculture.

The common diseases of farm animals are briefly discussed, together with remedies for same. Some practical work in caring for sick animals is also provided with the student. Text: Veterinary Elements.—*Hopkins*.

SPRING TERM—PROF. BLUFORD.

COURSE XII.—METEOROLOGY. Two credits. Required course XII Agriculture.

Movements of the atmosphere, character of wind, cyclones, tornadoes, thunderstorms, and weather forecasting are discussed.

C. Courses in Physics.

J. H. BLUFORD, *Instructor.*

COURSE I. Three hours. Course III Mathematics required.

The work of the first term consists of five lectures and recitation per week, the subjects covered being Mechanics, Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work.

COURSE II.—HEAT, MAGNETISM AND ELECTRICITY. Two hours. Course I Physics desired, Course IV Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring for, and hanging electric bells. Special attention is given to the various kinds of galvanic cells, their uses and relative values. The course is made as practical as possible, so that a student on leaving the college can take up the work of a practical electrician.

COURSE III.—SOUND AND LIGHT. Two hours. Course II desired, V Mathematics.

This is a continuation of Courses I and II, and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

COURSE IV.—AGRICULTURAL PHYSICS. Five credits. Required courses III Physics and V Chemistry and I Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: *Agricultural Physics.*—*King.*



STUDYING FLANT STRUCTURE.



INTERIOR VIEW OF FORCING HOUSE.

COURSE V.—PHYSICAL LABORATORY WORK. Three hours.
Courses I, II and III required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, and Heat.

COURSE VI.—AGRICULTURAL PHYSICS LABORATORY WORK.
Two hours. Courses I, II and III required.

This course will accompany Course IV with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work.

D. Courses in Horticulture.

SPRING TERM—PROF. BLUFORD AND MR. W. F. ROBINSON.

COURSE I.—BOTANY. Two credits. Open to all.

The various parts of plants are studied. Lectures will be given twice per week.

FALL TERM—PROF. BLUFORD AND MR. W. F. ROBINSON.

COURSE II.—BOTANY. Five credits. Desired C. I Horticulture.

Such subjects are how the plant takes up food from the soil and the atmosphere. The effect of sunlight, air and moisture on plants are noted. Diseases of plants and remedies for same are discussed in an elementary way. Given in connection in Course I Agriculture. Text: Elementary Botany.—*Bailey*.

WINTER TERM—MR. W. F. ROBINSON.

COURSE III.—PROPOGATION OF PLANTS. Three credits.

Methods of propagating plants by cutting, stolons,

suckers, layering seeds, etc., are discussed. The principles underlying budding, grafting and pruning are also discussed. Text: Principles of Plant Culture.—*Geff.*

WINTER TERM—MR. P. E. ROBINSON.

COURSE IV.—SMALL FRUIT CULTURE. Two credits. Required courses III Horticulture and III English.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the proportion of soil for same.

SPRING TERM—MR. W. F. ROBINSON.

COURSE V.—MARKET GARDENING. Three credits. Required course IV Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, special fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: Vegetable Gardening.—*Bailey.*

SPRING TERM—MR. P. E. ROBINSON.

COURSE VI.—POMOLOGY. Two credits. Required courses IV Horticulture and VI English.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit is discussed. Text: Fruit Growing.—*Bailey.*

WINTER TERM—MR. P. E. ROBINSON.

COURSE VII.—PLANT BREEDING. Two credits. Required course VII Horticulture.

Methods of crops, fertilizing plants, originating new varieties, and how to improve old varieties are discussed.

WINTER TERM—MR. W. F. ROBINSON.

COURSE VIII.—LANDSCAPE GARDENING. Two credits. Required course VI Horticulture.

Principles of embellishing landscapes, planting and management of woodlands, management of forests are discussed. Text: Landscape Gardening.—*Maynard.*



STOCK JUDGING.



STUDYING SPECIFIC HEAT AND RATE OF PERCOLATION OF WATER THROUGH SOIL.

E. Courses in Chemistry.**WINTER TERM—PROF. BLUFORD.**

COURSE I.—GENERAL CHEMISTRY. Three credits. Required course II Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture room, which bear directly on and pave the way for Agricultural Chemistry.

SPRING TERM—PROF. BLUFORD.

COURSE II.—GENERAL CHEMISTRY. Three credits. Required course I Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimographed Notes.

FALL TERM—PROF. BLUFORD.

COURSE III.—QUALITATIVE ANALYSIS. Three credits. Required course II Chemistry.

Laboratory work. During this term the student becomes familiar with testing for the metals and especially the fourteen which enter into the composition of plant and animal life.

WINTER TERM—PROF. BLUFORD.

COURSE IV.—QUALITATIVE ANALYSIS. Two credits. Required course III Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Appleton's Qualitative Analysis.

SPRING TERM—PROF. BLUFORD.

COURSE V.—AGRICULTURAL CHEMISTRY. Two credits. Required course IV Chemistry.

Lectures on the chemical composition of soils, plants and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed.

FALL TERM—PROF. BLUFORD.

COURSE VI.—QUANTITATIVE ANALYSIS. Five credits. Required course IV Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object being to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of various agricultural products.

SPRING TERM—PROF. BLUFORD.

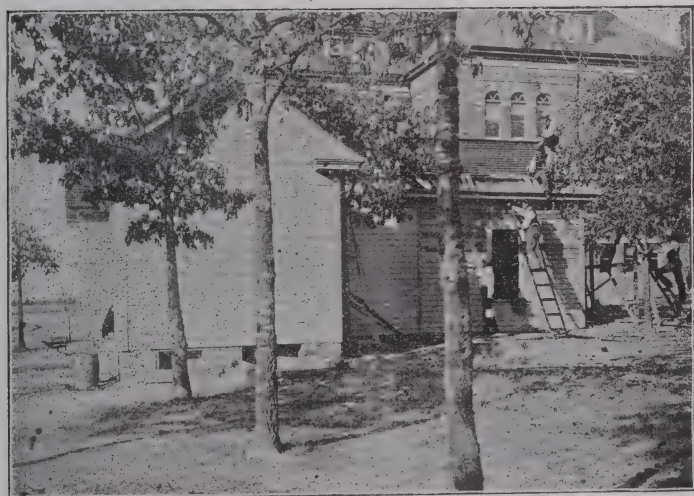
COURSE VII.—ANIMAL TOXICOLOGY. Two credits. Required courses I, II, III and IV Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning by plants, pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc.





CARPENTRY.



STUDENTS CONSTRUCTING A BUILDING.

Department of Mechanics.

A. WATSON, *Head of Department.*

*

Assistant and Instructor in Shops.

W. N. NELSON,

Instructor in Wood Working and Painting.

WM. YATES,

Instructor in Tinsmithing.

C. N. EVANS,

Instructor in Blacksmithing.

*

Instructor in Shoe and Harness Making.

*

Engineer and Janitor.

There are two most valuable possessions which no search warrant can take away, no reverse of fortune destroy. They are what is put into the brain: knowledge; and into the head: skill.

The work in this department is designed to give the student such a combination of knowledge and skill that he may be something more than an ordinary mechanic or an impracticable theorist.

From the beginning of the first year the time is divided between the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories in and around Greensboro, and every lecture and exercise will be illustrated so far as possible, and the practical application pointed out.

It is recognized at the outset that a knowledge of how to make and read drawings is necessary to success in mechanical work, and further that both practical knowledge and mathematical science are necessary in preparing any reliable drawing or interpreting the same. The courses as laid down are designed to make the student familiar with either machine shop practice, or building design construction.

The Trustees and Faculty have decided that the first two years work in this department shall be conducted as a trade school.

The first and second year students will, therefore, select the special line they wish to pursue, and will be required to continue in that special work during the two years. After that time, those who wish to graduate from the institution, will be given an opportunity for instruction in the other shops and will perfect themselves in mathematics, science and drawing.

EQUIPMENT.

This department is well equipped for the work in hand and other machinery will be added from time to time as required.

The department building is a substantial modern structure, two stories and basement. On the first floor are the joinery, wood-turning shop, machine shop and model room; in the basement of the rear wing is the smith shop, paint shop, tin shop, wood working machine shop, with stock room, and adjoining this is the boiler and engine rooms.

The lecture room can be made dark at a moment's notice and the sunlight used to illustrate on a permanent screen. Water and power are at hand for use, also gas. A dark room is fitted up for photographic use and for experiments requiring it.

In mechanics, a full collection of materials of construction will be provided, so that students can study them from observation as well as from text. A museum of models in mechanism and construction has been begun and will be added to as required. A reading room is provided in the building, well supplied with books of reference and technical journals. This is open at all times to the students. The equipment in drawing consists of tables, drawing boards and T squares. Students will pro-

vide themselves with instruments, which will be arranged for at lowest rates; also paper, pencils, ink, and entire set of drawing tools may be rented for 75 cents per term if paid in advance.

In free-hand drawing a full set of models with a sufficient number of tables is provided. Alcoves are arranged for teaching shading, and the rooms are well lighted and heated.

The wood-working shop is equipped with twelve double benches, provided with patent vises and stops, twenty-four complete sets of joiners and wood-worker's tools. Each set is arranged in a neat wall case, having a glass door and combination lock. Each student in wood-working has a set of tools and is responsible for them. There is also a large case of tools for the instructor and for general use. The shop is also supplied with a 36-inch band saw, a surface planer, a universal wood-worker, with attachments for sawing, ripping, dadoing, jointing, tenoning and boring, a swing-saw, a pattern maker's lathe, twelve small turning lathes, an emery wheel and grindstone.

The machine shop is equipped with six engine lathes, shaper, drill-press, vises, test plates and a full assortment of band tools.

The forge shop is equipped with twelve patent, down-draft Buffalo forges, each having an anvil, sets of tongs, flatters, fullers, etc., also slack-tub and coal box. The blast for the forges is supplied by a 40-inch fan, placed in the corner of the shop and connected to the main shaft. The smoke is exhausted by the same fan and forced out at the side of the building. There is also one portable hand force for use when the machinery is not running. Two work benches, supplied with vises, stock and dies, taps, files, etc., also a mandrell, sledges, and leather aprons, complete the equipment in this shop.

The power plant consists of a 30-horse-power Root water tube boiler of latest design, and a 35-horse-power Skinner automatic engine of the latest pattern. There are

also two smaller engines for experimental and farm work. The exhaust steam is used for heating when the shops are running. All modern accessories, such as steam feed pump, feed water heater, oil separator, reducing and back-pressure valves, etc., are in constant use.

The Westinghouse Electric & Manufacturing Company, of Pittsburg, has presented us with a sixty-light direct-current dynamo and the same will be installed during the next Fall term; also a complete set of incandescent and arc lights.

The tin shop is fully equipped with machines for doing all kinds of tin work, and this shop supplies the cans for the canning industry carried on by the Department of Agriculture, machines for ornamental work, such as cornices, gutters, finials, etc., will be added as soon as necessary.

Instruction in the following trades has been provided:
Blacksmithing and general repairing.

Horeshoeing.

Tinsmithing.

Broom-making.

Wood-turning.

Bricklaying and Plastering.

Wheelwrighting.

Painting and decorating.

Machinist work.

Shoe and Harness making.

Heating, plumbing and gas fitting.

Students in this department will begin free-hand and mechanical drawing in the Fall term of the first year. They will be required to make a regular graduated set of models and exercises in the various lines they pursue, from drawings furnished by the department, after which they will design their own work, under the supervision of the instructors in charge. All work will be executed from drawings in order to familiarize the student with the preparation of and reading the same.

The course in mechanical drawing will be varied to suit

the different trades and will be as practical as possible.

Advanced students will be required to do considerable technical reading, under the direction of the professors in charge, and the third and fourth year men will be required to write at least two technical essays during each term. These will be read at the bi-weekly meetings of the students of the department held to hear lectures on technical subjects and to discuss the papers read. A full line of technical journals will be on file for the use of students, and the books in the department library are always accessible for reference.

Students, candidates for graduation in this department will, at least, do thirty hours of shop-work, eighteen of which must be in one line of work.

Students taking wood-work, tin-work, or machine shop-work will be required to take instrumental drawing from the beginning of their course. Other trades require free-hand drawing only.

A special course of two years will be given students taking wood-turning as a trade.

Text-book will be required on all trades in the Mechanical Department, and an examination at the end of each term will be given in the same.

Text-books of all class room work will be purchased by the students.

Students must supply themselves with books and instruments.

Tools to be purchased by students:

Machine Shop.—Thread gauge and prick punch, steel scale and scratch all, screw pitch gauge.

Blacksmith Shop.—Apron and cap, one foot rule, one calipers.

Tin Shop.—Dividers, ruler, scratchall and aprons.

Carpenter Shop.—Cap, apron, dividers, jack-knife, pencil and rule.

Wood Turning.—Cap, apron, dividers, pencil and rule.

Bricklaying.—Overalls, cap, trowels, square and rule.

Broom and Shoe Shops.—Aprons, rule, pencil and knife.

HOUSE PLANNING—FOURTH YEAR.

COURSE I.—MECHANICS OF BUILDING. Two hours. Courses II Mathematics, XII Drawing, III English required. Note-book only.

The first term consists of lectures and drawing exercises in the use of materials. The analysis of strains in girders, beams, columns and rods. The graphic method is used as well as the analytic. Ten plates.

COURSE II.—Two hours. Course II required. Note-book.

Consists of graphic analysis of trusses, arches and walls, and their proper design and construction. The work is made entirely practical and many original problems will be worked out. No text-books required. Twelve plates.

COURSE III.—PLUMBING. Two hours. Courses I Technology, I Physics, III and IX Drawing required. One term.

Consists of lectures and drawing. The various methods of disposals of sewerage and drainage are explained also. The best kinds of sanitary appliances, defective methods and material receive attention, and a course in technical reading is required on this subject in connection with the lectures. Sketches and scale drawings for plumbing plants will be called for as the lectures describe the same. Facilities will be given for inspecting work under construction in the city.

COURSE IV.—HEATING-VENTILATING. Two hours.

This course comprises lectures and drawing exercises in the various methods of heating buildings. Fire-places receive attention first, then stoves and furnaces are discussed. After this the different methods of steam and hot water heating receive attention, and working drawings and details are required. The sizes of flues, boilers, pipes and radiators are determined and comparative estimates made of cost. In connection with this work stu-

dents may take shop courses in steam and water fitting and in tin work adapted to furnaces and stoves.

COURSE V.—CONTRACTS, ESTIMATES AND SUPERVISION WORK. Two hours. Course V required, also II drawing. One term.

This course consists of lectures, exercises and reading. The law of contracts is explained, and the forms of building contracts, plastering wall contracts, sub-contracts, etc., are given in full. Sets of working drawings and specifications are given for estimate, and specification work outlined. The chief points in supervision of work is dwelt upon and the student is advised in the matter of handling men and materials to the best advantage.

COURSE VI.—ARCHITECTURE. Three hours. Course IX drawing. One lecture per week. One hour of reading and three hours of drawing will be required in this course. One term.

The subjects will comprise Egyptian, Greek, Roman, Byzantine, Romanesque, gothic and modern styles. Their history, development and constructive features will be brought out, and the drawing will serve to illustrate and fix the same in the minds of the students. Students desiring to take the lectures only, may do so, receiving one hour credit. Open to third and fourth year students.

COURSE VII.—PHOTOGRAPHY. Two hours.

This work consists of practical amateur work in handling the camera, developing, dry plates, blue printing and silver printing, and mounting of prints. Practice in lantern slide-work is also given, and practical work in enlarging or reducing for this purpose, is required. This course is not intended to produce photographers, but as an adjunct in mechanical work. Open to Seniors only, except by special permission.

COURSE VIII.—MECHANISM. Three hours. Courses VIII and XI Mathematics, required.

The work consists of recitations and drawing exercises, illustrating the various principles of mechanism. This

work paves the way to intelligent machine designing, and required of those taking advanced work in machinery.

COURSE IX.—MATERIALS OF CONSTRUCTION. One term
Two hours. No previous work required. Note-book only.

Two lectures per week during one term are devoted to a description of the various materials entering into ordinary buildings. Attention is given to methods of their manufacture and preparation, defects and special uses. The subjects include stone, cements, brick, iron, steel, copper, tin, lead, zinc, alloys, wood, glass, paints, hardware and furnishings. The lectures are elementary and are illustrated as far as possible by means of models, specimens, and lantern views.

SHOP FEES.

No charge is made for the use of tools or apparatus, but a small fee to cover cost of material is charged, as follows:

Machine Shop	50 cents per term.
Blacksmith Shop	75 cents per term.
Wood Shop	50 cents per term.
Tin Shop	50 cents per term.
Tin Shop	50 cents per term.
Shoe Shop	50 cents per term.

Students are held responsible for tools, instruments and apparatus used.

DRAWING—FIRST YEAR.

COURSE I.—FREE-HAND. Two hours. No requirements.
One term.

Flat copy, including squares, circles, symmetrical figures and conventional forms are taught during first term. Eighteen plates will be required, three of which are original designs by the student.

COURSE II.—FREE-HAND. Two hours. Course I desired, but not required. One term.

Perspective and sketching from models is taught during the first part of this term, and shading of solid forms

afterward. Twenty plates are required for passing.

COURSE III.—FREE-HAND. Two hours. Course II required. One term.

The work of this term consists of sketching from miscellaneous objects, both from nature and mechanics. Special attention is also given to the preparation of free-hand work in drawings. Elevations, perspective, sections and details of machines and parts are required to be made. All work is original, no copies allowed. Eight plates required.

COURSE IV.—INSTRUMENTAL DRAWING.. Three hours. Course open to all. One term.

Instruments and text. This work begins with the use of instruments, their care and special attention. The student also studies practical Geometry from text and draws the problems as described. All work is neatly traced in ink and carefully lettered. Fifteen plates required.

COURSE V.—PROJECTION. Two hours. Course IV required. One term.

The science of representing objects according to the standard methods of projection is taught in this course. The use and nature of the scale is also given at his time. The work comprises lectures and exercises in regular plan and elevation work, also in isometric projection. Fifteen plates are required, five of which must be original.

COURSE VI.—Two hours. Course V required. One term.

The work of this course will consist of special lessons in connection with the various trade courses. The application of courses IV and V will be made to the needs of the manual training work. Fifteen plates are required, five of which are original.

COURSE VII.—ELEMENTARY CONSTRUCTION. Two hours. Courses III and VI required.

This course consists of occasional lectures, with exercises in drawing of various construction details in the several trade courses, especial attention being given to building and machine work. Students are required to

make careful scale drawings of the problems given, and to keep notes of the lectures. Twelve plates will be required for passing.

COURSE VIII.—ELEMENTARY CONSTRUCTION. Two hours.

Course VII required.

Lectures and drawing. Continuation of course VII. Color work, both pencil and brush, will be introduced in this course. Detailing will also be taught. Eighteen plates required.

COURSE IX.—Two hours. Course XI required.

This will consist of advanced design with full working details for same. Practice in taking of quantities and making estimates will be given. Outline specifications will be required in this term.

COURSE X.—Two hours. Mechanics, history of architecture, course XII required.

Advanced architectural designs, including perspective and color drawing, complete sketches, working drawings and specifications are required; also complete estimates and quantities.

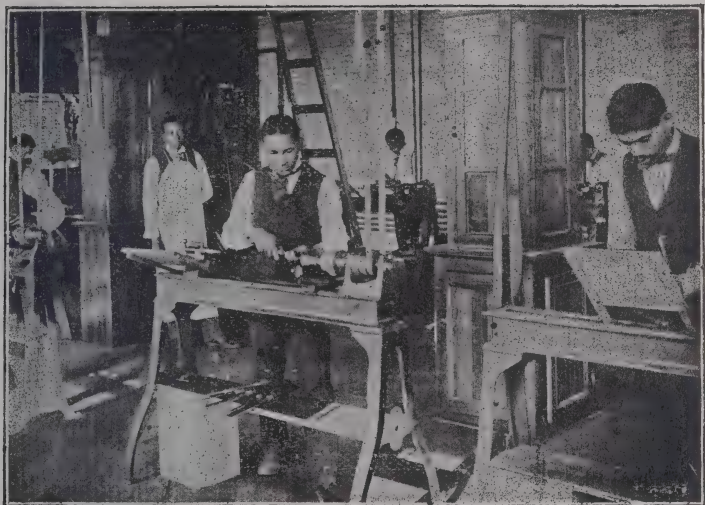
Manual Training and Blacksmithing.

COURSE I.—Three hours. No requirements. Elective.

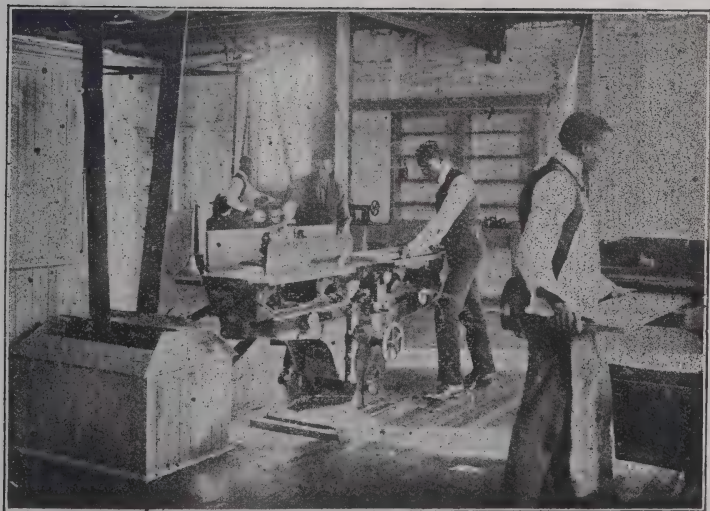
The work of this course consists of learning the names and uses of tools, building and managing fires, forging and shaping iron. All work is done from drawings, and the student is required to complete at least fifteen models of the prescribed course before credit is allowed.

COURSE II.—Three hours. Course I and course II drawing required.

Welding iron is taught during this term, and a full exposition of the art given. The student is required to work from models and drawings, and fifteen exercises must be submitted. Bolt and nut making are also given in this course.



WOOD TURNING.



POWER WOOD SHOP

COURSE III.—FORGING, WELDING AND TEMPERING STEEL.

Three hours. Course II and course III drawing required.

This work is intended to give the student a knowledge of working steel in various forms. The making of laid in edge tools, tempering springs, hammers, cold-chisels, cutters, drills, etc., is fully illustrated and the student encouraged to make tools for his future work. Students preparing for machine shop work are required to make a full set of lathe tools, cold chisels and hammer for their future machine shop work. Ten models required.

COURSE IV.—HORSESHOEING. Three hours. Course III drawing, course III B. S. required. One term.

The making of shoes for various special uses will be taught during this term, and reasons given for each form. The anatomy of the hoof is also studied, and wrong methods pointed out. The student will also receive instruction in general repairing of farm machinery.

A set number of models will not be required in this year, as students in the last year of their trade work are expected to be sufficiently interested in their work to employ their time to the best advantage.

Wood-Working.

COURSE I.—JOINERY. Three hours.

Students in this work are required to take courses I and IV in drawing.

The use of the plane, tri-square, gauge saw and chisel are exemplified and the general care of edge tools explained. Fifteen models from drawings required to pass.

COURSE II.—Three hours. Course I, and courses I and IV drawing required.

The brace and bit are introduced in this course, and also the level square; practice in mortising and mitering is given; grinding and setting planes are taught. Fifteen models; ten copies, five original.

COURSE III.—Three hours. Course II, and courses II and V drawing required.

This term is given to practical application of principles learned. Jointing and glueing are taught, and dovetailing; saw-filing and setting also is required of each student. All work to be done from student's designs.

COURSE IV.—Three hours. Courses II and III required.

Wood-turning between two centres is taught in this term. Ten models from copy and ten original models required.

COURSE V.—Three hours. Course IV required.

Wood-turning, face-plate work, turning rosettes, cups, rings, balls, etc. Then models from copy and ten from original designs required.

COURSE VI.—Three hours. Course V required.

General construction work in carpentry or joinery or cabinet work. All work to be made from student's own designs.

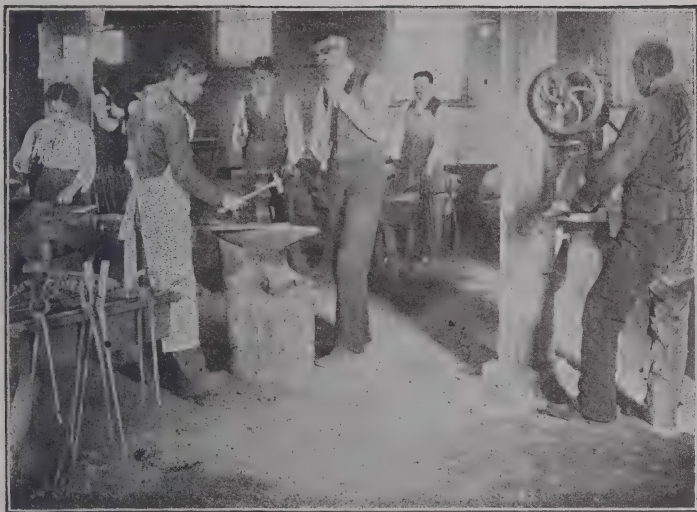
Machine Shop.

COURSE I.—Two hours. Courses III and VI drawing, III blacksmithing required. First term.

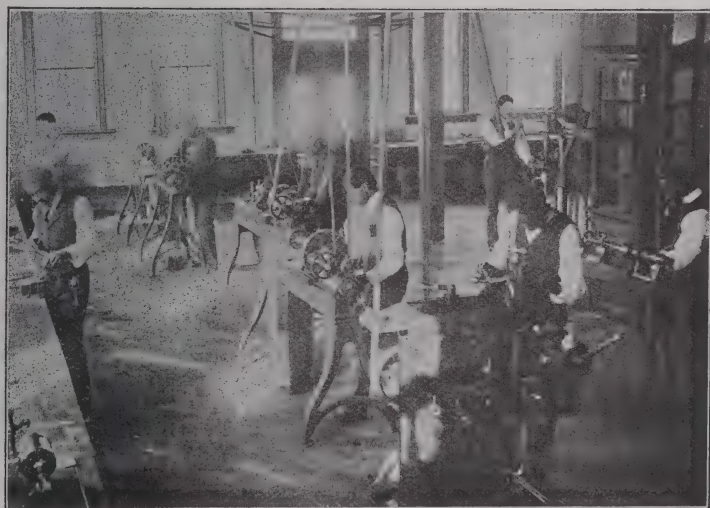
The work of this term will be given mainly to chipping and filing. No time will be spared to fully fix in the mind of the student the value of the tools used in this work and the names of the same. Ten models required to complete the course.

COURSE II.—LATHE WORK. Three hours. Courses I machine work and VII drawing required.

During the time in this course the student will be taught how to centre different shaped objects and the various cuts made by an engine lathe. Some knowledge of how to use the drill and reamer on live and dead centres. Ten models required, including one original piece.



FORGING.



MACHINE WORK.

COURSE III.—DRILLING MACHINE. Three hours. Courses II machine work and VIII drawing required.

Laying out work by prickmarks and lines will be given special attention. Drilling of different kinds of material with certain speed will occupy much of the time in this work. Speeds and feeds for different size drills must be carefully studied. Ten models will be required to complete this course.

COURSE IV.—BLANKS FOR GEARS AND THREAD CUTTING, INTERIOR AND EXTERIOR. Three hours. Courses III machine work, IX drawing required.

Blanks for gears of various sizes and positions will be cut and faced on the lathe. Addendum line will be found by student. Threading of different kinds of material, both interior and exterior diameters, together with worms and cylinder cams, will constitute the bulk of the work of this course. Ten models required, three of them original.

COURSE V.—SHAPER WORK. Three hours. Courses IV machine work, X drawing required.

The work of this course will be original throughout, and no student will be allowed more than four models and not less than two, except in very difficult problems. The work will include gear cutting and the general assembly of parts of complete machines.

Tin Work and Pipe Fitting.

Instructor.

COURSE I.—Three hours. No requirements.

The work of this course consists of familiarizing the student with the various tools, machines and materials used in the trade, and in cutting and plane soldering. Making cans, cups, etc., from patterns is required of the student for passing.

COURSE II.—Three hours. Course I, and I and IV drawing required.

Continuation of course I, introducing sheet iron work, riveting, bending, guttering, making joints, elbows and Ts from furnished patterns.

COURSE III.—Three hours. Course II required.

Constructing general tinware from student's own patterns. Six models required. Principles of flat and standing seam working also taught.

COURSE IV.—Three hours. Courses III and VI drawing, III tinwork required.

Cornice work, stamping, brazing, working from original designs of student.

COURSE V.—Five hours. Course IV required, and VII drawing.

Pipe-fitting, joining cast iron, wrought iron, brass and lead pipes, use of pipe machine, stocks and dies, cutters, etc., is taught, and reasons given for methods used.

COURSE VI.—Three hours. Course V required.

Furnace work, ornamental tin and sheet metal work, exhibition work.

Shoe and Harness Making.

— Instructor.

COURSE I.—Three hours. Open to all.

Consists in learning the names of tools used in the trade, also kinds of material; half-soleing with tacks and repairing cheap bottoms of shoes.

COURSE II.—Three hours. Course I required, and I drawing.

Making of waxed ends, sewing soles, sewing and cementing patches, etc., cutting patterns from measures.

COURSE III.—Three hours. Course II required, II drawing.

Stitching uppers, assembling parts, and finishing com-

mon shoes. At least one good pair is required for passing course III.

COURSE IV.—Three hours. Course III shoe work, III drawing required.

Harness repairing and plain sewing, learning parts of harness and methods of making various kinds.

COURSE V.—HARNESS MAKING. Three hours. Course IV required.

New work will occupy the time of this course, and students will be taught to cut and make a complete working set of harness, excepting collars.

Bricklaying.

COURSE I.—Two hours.

In this course excavating and grading will be given in its practical ways. Excavations for drains, dry wells, furnace pits, air ducts, etc., to be given special attention.

COURSE II.—Two hours.

This course will cover piling, brick and concrete footings, specifications for stone work, foundation walls, basement piers, mortar, external walls and rubble.

COURSE III.—Two hours.

This course will cover Ashler, setting stone work, anchors and clamps, cleaning and painting walls. Bonding of all kinds will be given special attention.

COURSE IV.—Two hours.

This course will enable the student to lay pressed brick, mould brick, and any grade of advanced architectural or ornamental brick work.

COURSE V.—Two hours.

This course will prepare the student to construct all classes of arches and hollow wall. The use and advantage of the arches and walls will be given special attention. Colored mortar, chimneys, flue lining, timbles and cold air ducts are specialties.

COURSE V.—Two hours.

In this course fire walls, ventilators, setting iron work,

setting cut stone, terra cotta, and specifications for laying masonry in freezing weather will be given.

COURSE VII.—Two hours.

This course will be a review of the preceding courses and specifications for fireproofing and terra cotta trimming will be given students in its simplicity.

Lathing and Plastering.

COURSE I.—Two hours.

This course shall cover the kind of material used, how mixed for good quality and bad quality work. One coat and three coat work will be discussed.

COURSE II.—Two hours.

In this course sand finish, hard finish, white coat, pebble dash, etc., will be given.

COURSE III.—Two hours.

This course will comprise specifications for both metal and wood lath, how put on both iron and wood walls.

COURSE IV.—Two hours.

This course will be a review of the foregoing courses and fire proof floors will be given attention. Each student will be given specifications on plaster cornice.

Wheelwrighting.

COURSE I.—Two hours.

This course will cover making spoke gauge, traveling wheel, anvil clamp and other light tools that can be made by students.

COURSE II.—Two hours.

In this course setting up the wheel will begin. Reaming spokes and fitting rim will be given.

COURSE III.—Two hours.

In this course the different styles of rim finishing will receive special attention.

COURSE IV.—Two hours.

This course will acquaint the students with the grades

of hubs and why used. Details and specifications will be used.

Broom Making.

COURSE I.—Two hours.

Three hours are given to learning names of tools used in the trade, kinds of material, dyeing and separating the hull from inside.

COURSE II.—Separating No. 1 hull from No. 2 hull, and No. 1 inside from No. 2 inside.

All grades of materials will be used and special attention is given in selecting material for high-grade brooms.

COURSE III.—CUTTING AND STEMMING.

This is to give the student knowledge of how to build up the inside of the broom and to make it stout, long or short.

SECOND YEAR.

COURSE IV.—WIRING AND STITCHING.

COURSE V.—FANCY WORK.

Department of Industries.

J. W. LANDRETH, *Head of Departemnt.*

This department is run primarily from a commercial point of view to accomplish a three-fold purpose, viz: to furnish revenue to the college, to give employment to needy and deserving students, and to supplement by practical work the theoretical instruction of the class-room.

The department comprehends the following industries:

Broom Factory. The broom factory is equipped with all the necessary machinery for converting the broom-corn, raised on the farm, into the most useful article of the household—the broom. The college finds a ready market for the output of the factory in its immediate vicinity.

Brick Yard. The brick yard is equipped with a power brick-machine made by J. C. Steele & Sons, Statesville, N.

C., a repress for making pressed brick, two Steele's patent trucks, hack boards and brick covers. The machinery is propelled by a 25-horse-power Atlas automatic engine of the latest design and a 30-horse-power Atlas return tubular boiler of the newest pattern. There is also a dry kiln in course of construction which will, when completed, enable the plant to be operated during the entire year.

Canning Factory. A canning factory will be put in during the summer for the purpose of putting into marketable form the surplus vegetables which are not sold in the raw state. The department makes its own cans in a shop connected with the factory.

Brick Laying and Plastering. The department takes contracts along this line so that the students may not only have an opportunity to learn to make brick, but also to build the product of their own labor into neat and imposing structures. He is thus able to trace, with delight, the crude clay, from a barren field or worthless bottom, through the various processes of the brick-yard to the magnificent edifices on the thoroughfares of Greensboro.

House Building, Heating and Plumbing. This line of work not only furnishes a ready market, for raw material, such as brick made by the college, but also serves to give the student practice in actual house-building and contracting. The department is well equipped for this kind of work.

The Farm. A farm of 125 acres, is well stocked, and equipped with the most improved farm machinery and labor-saving devices. Corn, wheat and potatoes are the most important crops, while vegetables are grown to such an extent as the market demands.

A ninety-ton silo has been erected which is filled with corn silage each year which is cut in the field with a corn harvester and cut up for the silo by a St. Albans shredder.

The Green Houses. The college has three green-houses: one for forcing a variety of flowers, such as roses, hyacinths, freesias, ferns, narcissus, palms, and other rare plants; another, used exclusively for the forcing of carna-



FARM VIEWS.

tions for market, and a third, for forcing early vegetables.

The Dairy. The dairy building and apparatus for instruction purposes is also used by the Department of Industries for the separation and bottling of milk for market and for manufacturing butter and cheese. The college has a herd of thirty-eight cattle.

The Piggery. The piggery is well equipped and modern. It is stocked with pure bred and grade Berkshires and Polan-China hogs.

The Academic Department.

JAMES B. DUDLEY,
CHARLES H. MOORE,
S. P. SEBASTIAN,

English Grammar.—The aim is to enable the student to speak and write the English language correctly. Recognizing the fact that grammar drill develops in students logical habits of thought, besides giving them greater command of language, special attention will be given to the analysis and construction of sentences and to the principles of elementary composition.

Arithmetic.—Instruction will be given in the principles that underlie the various classes of problems, thus teaching the student to rely upon himself and not upon rules.

U. S. History.—The leading facts, causes and sequences showing the growth of our country and national history, will be studied with a view to develop true patriotism.

Other Branches of Study.—Instruction is also given in spelling, reading, writing, and geography.

Mathematics.

S. P. SEBASTIAN, *Instructor.*
FALL TERM.

COURSE I.—Five hours. United States Currency, Fractions.

WINTER TERM.

COURSE II.—Five hours. Relations of Numbers; Ratio and Proportion, Equation, Compound Numbers.

SPRING TERM.

COURSE III.—Five hours. Longitude and Time, Practical Measurements, Metric System.

FALL TERM.

COURSE IV.—Five hours. Percentage, Interest, Discount.

WINTER TERM.

COURSE V.—Five hours. Stocks and Bonds, Proportional Parts, Partnership, Involution, Evolution.

SPRING TERM.

COURSE VI.—Five hours. Mensuration, Compound Proportion, Insurance, Exchange, Specific Gravity, Introduction to Algebra. Text-book: Colaw & Ellwood's Advanced School Arithmetic.

COURSE VII.—Algebra. Five hours. Course VI in Arithmetic required.

This course comprises the elements of Algebra through quadratics. All unnecessary matter is left out, and the application of each principle is pointed out. The first term takes the work through fractions. Text: Milne's Elements.

COURSE VIII.—ALGEBRA. Five hours. Course VII required. Text as above.

Beginning at simultaneous equations, and completing quadratic equations.

COURSE IX.—PLANE GEOMETRY. Five hours. Course VI required.

Well's Elements are used in this course, omitting many propositions not easily applied. This course finishes book I. Text: Wells.

COURSE X.—GEOMETRY. Five hours. Course IX required.

Continuation of Course IX. Completing books II and III.

COURSE XI.—GEOMETRY. Five hours. Course IX required.

This course completes books IV and V, and reviews the whole work. Elementary conic sections are also given.

COURSE XII.—SOLID GEOMETRY. Five hours Course XI required.

Wells' Solid Geometry is used and the practical parts only are required. Special attention is given to finding areas and volumes of various solids.

Commercial Geography.

COURSE I.

A course in Commercial Geography of the United States, British America, Mexico, Central America, West Indies, South America.

COURSE II.—Europe, Great Britain and Ireland, Asia, Africa, Australia and Oceanica is given to first year students. Maury's Manual Geography is the textbook used.

English.

CHARLES H. MOORE, *Instructor.*

FIRST YEAR—FALL TERM.

COURSE I.—Five hours. The Sentence, The Paragraph, Dictation Exercises, Abbreviations, The Comma, Constructions, Oral and Written Compositions.

WINTER TERM.

COURSE II.—Course I required. Five hours. The Two Parts of a Statement, Proper and Common Names, When to Use Capital Letters, Number and Possessive Forms, Words that Describe, Transitive and Intransitive Verbs, Composition Work.

SPRING TERM.

COURSE III.—Course II required. Five hours. Letter-writing and Other Composition Exercises. Book: Hyde's, Part II.

SECOND YEAR—FALL TERM.

COURSE IV.—Course III required. Five hours. The Sentence, Subject and Predicate, The Different Parts of Speech, Phrases and Clauses.

WINTER TERM.

COURSE V.—Course IV required. Five hours. Sub-division of Parts of Speech and Inflection, Syntax, Structure and Analysis of Sentences.

SPRING TERM.

COURSE VI.—Course V required. Five hours. Composition Work and the Study of the English Language. Book: Hyde's, Part II.

THIRD YEAR—FALL TERM.

COURSE VII.—Course VI required. Five hours. The Art of Writing English, Grammatical Phases of Writing English, Organizing the Theme, Choice of Words, Composition Work.

WINTER TERM.

COURSE VIII.—Course VII required. Five hours. Source of English Vocabulary, Letter Writing, Reproduction, Abstract, Narration and Description, Exposition and Argument. Book: "First Book in Writing English."—*Lewis*.

SPRING TERM.

COURSE IX.—Course VI required. Five hours. Civil Government (complete). Text-book. Peterman.

FOURTH YEAR—FALL TERM.

COURSE X.—Course VI required. Five hours. Logic (complete.) Text-book: W. S. Jevons.

WINTER TERM.

COURSE XI.—Course VI required. Five hours. Political Economy (complete). Text-book: W. S. Jevons.

Night School.

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best attention that the conditions will permit will be given, and students attending the night school eventually may arrange to enter the day school. Courses completed in the night school will receive the same credit as if completed in the day school.

To enter the night school the applicant should be 16 years of age; and he should first secure work. This may be done by sending written application immediately to "The Department of Industries, A. & M. College, Greensboro, N. C."

Medals and Scholarships.

Through the kindness of Prof. H. E. Hagans, former Professor in charge of our English Department, Principal of the State Normal School, Goldsboro, N. C., we are permitted to announce that a gold medal, known as the "Hagans Medal" will be awarded to the members of the graduating class of 1904, who has the best general record in English subjects.

Medals will also be given for similar proficiency in the Agricultural and in the Mechanical Departments about the beginning of the session.

The Eugene Dietzgen Co., of New York, has given a full set of drawing instruments to the student making the best set of drawings.

Organizations.

The growth of the institution made is necessary for two general literary organizations, known as "The Agricultural Literary Society," and "The Mechanical Literary Society." The Y. M. C. A. is an organization of great and most wholesome influence among the students.

The Agricultural Literary Society.

OFFICERS.

P. J. Greenlee.....	President
W. M. Lamb.....	Vice-President
J. M. Rand.....	Secretary
J. I. Johnson.....	Treasurer
J. R. Ellis.....	Chaplain
T. L. Ramseur.....	Critic
B. P. Holly.....	Editor

Y. M. C. A.

J. R. Ellis.....	President
B. P. Holly.....	Vice-President
Robert Turner	Secretary
L. L. Ramseur	Corresponding Secretary
M. Saunders	Treasurer

The Mechanical Literary Society.

A. A. Oldham	President
E. W. Richie.....	Vice-President
T. B. Hooper.....	Secretary
—, —, —.....	Treasurer
W. T. Edwards.....	Critic
E. A. Prather.....	Editor

LIST OF STUDENTS.

FIRST YEAR CLASS.

Alexander, Wm.	Concord, N. C.
Alston, A. J.	Warrenton, N. C.
Artis, W. B.	Goldsboro, N. C.
Baldwin, J. E.	Greensboro, N. C.
Brean, E. E.	Liberty, N. C.
Brown, E. W.	Jacksonville, Fla.
Caesar, Robert	Mt. Airy, N. C.
Campbell, D. C.	Austin, N. C.
Carrigar, Thomas	Concord, N. C.
Carrigar, William	Concord, N. C.
Chestnut, Patrick	Wilmington, N. C.
Clark, E. D.	Washington, D. C.
Cotton, R. R.	Greensboro, N. C.
Coulter, Carlos	Newton, N. C.
Crockett, Ross	Greensboro, N. C.
Crowe, S. C.	Spartanburg, S. C.
Davis, C. G.	Cottonville, N. C.
Davis, Jonah	Raleigh, N. C.
Dillard, Thomas	Greensboro, N. C.
Donnell, Clyde	Greensboro, N. C.
Duck, Thos. E.	Graham, N. C.
Dunston, A. L.	West Raleigh, N. C.
Edwards, Robert	Kinston, N. C.
Evans, G. F.	Mint Hill, N. C.
Fisher, B. L.	New Bern, N. C.
Flow, Baxter	Mint Hill, N. C.
Fondsworth, John	Asheville, N. C.
Foster, Charles	Greensboro, N. C.
Foster, J. O.	Greensboro, N. C.
Fouchee, Clifton	Greensboro, N. C.
Foy, Monroe	Kernersville, N. C.
Friday, E. S.	Greensboro, N. C.
Fronberger, M.	Gastonia, N. C.
Gaines, K. L.	Concord, N. C.
Galloway, E.	Greensboro, N. C.
Green, W. N.	Warrenton, N. C.
Greenlee, George	Asheville, N. C.
Gwyn, J. A.	Winston, N. C.
Hansley, W.	Rocky Point, N. C.

Haynes, Harrison	Asheville, N. C.
Hinton, A. R.	Greensboro, N. C.
Jackson, J. G.	Carthage, N. C.
Johnson, Charles	Hickory, N. C.
Jones, E. R.	Weldon, N. C.
Jordan, J. F.	Greensboro, N. C.
Koger, J. H.	Reidsville, N. C.
Lamb, J. L.	Herring, Va.
Leach, Thomas	Pittsboro, N. C.
Lee, E. L.	Greensboro, N. C.
Mock, H. G.	Harris, N. C.
Monroe, D. H.	New Berne, N. C.
Morgan, W. T. O.	Bachelor, N. C.
Morris, Charles A.	Asheville, N. C.
Morrissey, John	Wilmington, N. C.
Morrison, C. R.	Rheinhardt, N. C.
Murphy, R. M.	Asheville, N. C.
Murphy, T. E.	Statesville, N. C.
Murrill, R. D.	Mariposa, N. C.
McDonald, James	Dillsboro, N. C.
McClain, W. D.	Huntsville, N. C.
McCaskill, N. E.	Pegues, N. C.
McCaskill, Samuel	Pegues, N. C.
McCaskill, Wiley	Pegues, N. C.
McGee, J. C.	Kenansville, N. C.
McLaurin, Henry	Clio, S. C.
Nelson, Fred	Greensboro, N. C.
Pair, W. D.	Raleigh, N. C.
Patillo, S. B.	Elams, N. C.
Peace, W. C.	Carthage, N. C.
Pharr, William	Mint Hill, N. C.
Prather, Joseph	Raleigh, N. C.
Reaves, R. L.	Pittsboro, N. C.
Robeson, M.	Saxapahaw, N. C.
Robinson, J. F.	Mint Hill, N. C.
Robinson, T. E.	Laurinburg, N. C.
Russell, James	Graham, N. C.
Saulter, W. D. S.	Raleigh, N. C.
Sanders, M. S.	Spartanburg, S. C.
Scott, Chas. A.	Goldsboro, N. C.
Scott, Chas. R.	Oxford, N. C.
Scurlock, B. J.	Pittsboro, N. C.
Sigmon, Willie	Asheville, N. C.
Spaulding, J. W.	Elkton, N. C.
Swinson, M. M.	Winston, N. C.
Troy, A. J.	Wilmington, N. C.

Truman, J. C.....	Durham, N. C.
Turner, E. L.....	Walnut Cove, N. C.
Waugh, George	Greensboro, N. C.
Whitted Fred	Goldsboro, N. C.
Whitted, Logan	Greensboro, N. C.
Wilkins, W. H.....	Dayton, N. C.
Williams, Col. B.....	Wilmington, N. C.
Winley, S.....	Winthrop Mills, N. C.
Womble, Graham	Greensboro, N. C.
Wooden, A. J.....	Moncure, N. C.

SECOND YEAR CLASS.

Carter, Fred	Reidsville, N. C.
Coble, W. D.....	Rock Creek, N. C.
Fonville, H. F.....	Goldsboro, N. C.
Ford, Reid	Rutherfordton, N. C.
Gill, Chas. R.....	Fayetteville, N. C.
Green, George	Raleigh, N. C.
Greenlee, A. L.....	Asheville, N. C.
Greenlee, N. B.....	Asheville, N. C.
Harris, J. H.....	Youngsville, N. C.
Hawkins, J. A.....	Carey, N. C.
Howell, H. A.....	Asheville, N. C.
Keck, Willie	Greensboro, N. C.
Lee, James	Thomasville, N. C.
Lee, John	Thomasville, N. C.
Moore, T. W.....	Richardson, N. C.
McLaurin, William	Clio, S. C.
McRae, S. D.....	Thomasville, N. C.
Orum, M. F.....	New Bern, N. C.
Rand, J. M.....	West Raleigh, N. C.
Richardson, J. R.....	Pittsboro, N. C.
Roach, C. J.....	Vanceboro, N. C.
Stewart, Needam	Laurinburg, N. C.
Stinson, G. A.....	Gastonia, N. C.
Washington, J. H.....	Tuskegee, Ala.
Whitney, O. G.....	Smithfield, N. C.
Williams, M. W.....	Halifax, N. C.

THIRD YEAR CLASS.

Carter, W. P.....	Reidsville, N. C.
Ellis, J. R.....	Due West, S. C.

Godly, Charles	New Berne, N. C.
Holly, B. P.	New Berne, N. C.
Hooper, L. B.	Ruffin, N. C.
Johnson, J. I.	Oregon, N. C.
Johnson, W. T.	Oregon, N. C.
Jones, G. W.	Moore, N. C.
Lamb, Wilson	Herring, Va.
Morris, F. M.	Reidsville, N. C.
McLeod, C. F.	McNair, N. C.
Prather, E. A.	Raleigh, N. C.
Richie, E. W.	Greensboro, N. C.
Turner, R. R.	West Raleigh, N. C.
Watson, P. P.	Grove Hill, N. C.

FOURTH YEAR CLASS.

Chance, W. C.	Parmelee, N. C.
Day, Thomas	Asheville, N. C.
Edwards, W. T.	Siler City, N. C.
Greenlee, Percy G.	Asheville, N. C.
Jones, L. A.	Rocky Point, N. C.
Oldham, A. A.	Greensboro, N. C.
Ramseur, L. L.	Newton, N. C.
*Reaves, W. V.	Glendon, N. C.

*Deceased.

LIST OF GRADUATES.

1899.

- Cheek, W. T. C.....Lawrenceville, Va.
Mechanic, St. Paul's N. & I. School.
- Cunningham, I. S.....Tallahassee, Fla.
Mechanic, State N. & I. College.
- Curtis, A. W.....Institute, W. Va.
Agriculturist, West Va. Col. Institute.
- Falkener, E. L.....Enfield, N. C.
Farm Supt., J. K. Brick School.
- Joyner, J. M.....Philadelphia, Pa.
- Robinson, P. E.....Greensboro, N. C.
Assistant, Dept. Agr. and Chem. A. & M. College.
- Watson, A.....Greensboro, N. C.
Mech. Dept., A. & M. College.

1900.

- *Best, C. H.....Newport News, Va.
- Green, J. H.....High Point, N. C.
Industrial Dept., N. & I. School.
- Moore, R. D.....Morganton, N. C.
Teacher.
- Plummer, E. S.....Brooklyn, N. Y.
Mechanic.
- *Quick, J. R.....Greensboro, N. C.
- Robinson, Chas. D.....Greensboro, N. C.
Mech. Dept., A. & M. College.

1901.

- Colson, E. F.....Enfield, N. C.
Agriculturist, J. K. Brick School.
- Edwards, G. A.....Raleigh, N. C.
Teacher, Manual Training, Shaw University.
- Grimes, Frances E.....Charlotte, N. C.
Wharton N. & I. School.

1902.

- Bullock, Mrs. H. A.....Greensboro, N. C.
Housekeeper.

*Deceased.

Henderson, A. P.....	Hillsboro, N. C.
	Poultry Farmer.
Helper, T. H.....	Greensboro, N. C.
	Dairyman.
Holcombe, A. J. P.....	Raleigh, N. C.
	Agriculturist, D. and B. Institute.
Garrett, Mrs. F. E.....	Greensboro, N. C.
	Teacher.
Mebane, A. L.....	Princess Anne, Md.
	Agriculturist, Princess Anne Academy.
Quinn, Wm	Raleigh, N. C.
	Mechanic, D. and B. Institute.
White, W. A.....	Hillsboro, N. C.
	Poultry Farmer.

1903.

Alexander, W. G.....	Greensboro, N. C.
	Machinist, A. & M. College.
Amey, Chas. C.....	Greensboro, N. C.
	Blacksmith, A. & M. College.
Burnett, A. C.....	High Point, N. C.
	Agriculturist, High Point N. & I. School.
Forney, H. G.....	Greensboro, N. C.
	Mechanic.
Haywood, Berk	Raleigh, N. C.
	Mechanic.
Holmes, J. W.....	High Point, N. C.
Hunter, C. C.....	West Raleigh, N. C.
Jefferson, C. B.....	Warrenton, N. C.
McLendon, J. B.....	Aiken, S. C.
	Mechanic, Schofield N. & I. School.
Robinson, R. R.....	Claremont, Va.
	Agriculturist,
Robinson, W. F.....	Greensboro, N. C.
	Florist, A. & M. College.
Yores, Edw.	824 N. 13th, Philadelphia, Pa.

PREPARATORY DEPARTMENT.

CLASS OF 1900.

Aiston, Sarah V.....	Raleigh, N. C.
Carter, Alma J.....	Reidsville, N. C.
	Teacher.
Colley, J. C.....	Durham, N. C.

Cotton, LillianHampton, Va.
Student, Hampton Institute.

Davis, L. E.....Wilmington, N. C.
Davis, Mary O.....Hillsdale, N. C.
Davis, R. T.....Wilmington, N. C.
*Dudley, S. Inez.....Worcester, Mass.
Dunham, P. W.....Euloria, S. C.
Farrington, BerthaGreensboro, N. C.
Hooper, T. H.....Laurinburg, N. C.
Jeffreys, Annie F.....Petersburg, Va.

Student, N. & I. School.

Jones, Carrie E.....Raleigh, N. C.
Jones, Estella D.....Chapel Hill, N. C.
McKenzie, Sarah P.....Greensboro, N. C.

Teacher.

Pritchett, Nannie L.....Greensboro, N. C.
Quick, Knox S.....Laurinburg, N. C.
Richardson, M. L.....Wilmington, N. C.
Simmons, Victor W.....Statesville, N. C.
Strong, Andrew J.....Matrimony, N. C.
Willis, Josie H.....Wilmington, N. C.
Wilson, Lillie B.....Hillsboro, N. C.
Witherspoon, Annie F.....Raleigh, N. C.
Wooten, DavidPrinceville, N. C.
Wright, Annie C.....Danville, N. C.

CLASS OF 1901.

Gwyn, Ceil B.....Raleigh, N. C.
Jones, GeorgiaHampton, Va.
Student, Hampton Institute.

Jackson, N. E.....Carthage, N. C.
Logan, ElkwoodGale, N. C.
Lipscombe, Hattie B.....Raleigh, N. C.

Student, Shaw University.

Mapp, SadiePhiladelphia, Pa.
Palmer, DinahChurch Hill, N. C.
Rives, W. V.....Greensboro, N. C.
Rankin, A. E.....Greensboro, N. C.
Reynolds, MattieWaynesville, N. C.

*Deceased.

In order that this list may be kept accurately, graduates will please inform the President of any change in address, vocation, etc.

COLLEGE SONG.

(By Mrs. Jas. B. Dudley.)

Dear A. & M., dear A. & M.,
A monument indeed
Around thy base with grateful hearts,
Behold thy students kneel.
We bless the power that gave thee
birth
To help us in our need;
We'll ever strive while here on earth
All loyalty to yield!

(Chorus):

With joy, with joy, dear A. & M.,
Thy students turn from thee
To spread thy trophies year by year,
From Dare to Cherokee.

Dear A. & M., dear A. & M.,
The signet thou shalt be,
Set by our great, old commonwealth,
Proud booster of the free,
She'd have the record of her worth
On granite not inscribed;
Nay; let the children of her birth
Proclaim it by their lives.

Dear A. & M., dear A. & M.,
Henceforth our aim shall be,
By precepts wise, by deeds more sure,
To bless the State through thee.
The arts of industry to wield
Against an idle foe;
A harvest rich, from ripened fields
From what thy students sow.

The A. & M. College Register

The State Agricultural and Mechanical College

For the Colored Race

GREENSBORO, NORTH CAROLINA



Any young man who cannot spend time to examine
this catalogue pays a high price for the time saved

CATALOGUE 1906-1907

PUBLISHED BY THE COLLEGE. MAY, 1906

QUOTATIONS

"Nothing is denied well-directed labor and nothing is accomplished without it,"—*Sir Joshua Reynolds*.

Whatever is worth doing, is worth doing well. That of which we may not have reason to be proud, we ought to be ashamed.

One by one thy duties wait thee. Let thy whole strength go to each. Let no future dream elate thee. Learn thou first what these can teach.

"Lost! Yesterday, between sunrise and sunset, two golden hours, each set with sixty diamond minutes; but no reward is offered for they are gone forever."

All may do what by man has been done.

In every rank, or great, or small
'Tis industry supports us all.

ANNOUNCEMENTS

1. MEDICAL FEE.—Every student lodger must pay one dollar medical fee. There will be no further charges for medical attention; but this fee does not include expenses for medicine.
2. VACCINATION.—Each student will be required to be vaccinated on entrance unless he can show doctor's certificate proving that vaccination is unnecessary.
3. LODGING DEPOSITS.—On account of limited accommodations, students can secure room at once by paying one dollar for September lodging. In case of sickness or inability to attend, the one dollar will be refunded provided application for its return is made before September 1, 1906.
4. FREE TUITION.—Each Senator and Representative can recommend two students for free tuition. Upon the endorsement of a county Representative or Senator, we will give a student his tuition free. Free tuition does not mean free board and lodging. These two items cost \$6.00 per month.
5. SPECIAL EXAMINATIONS.—Entrance examination and examination for the removal of conditions are held on September 1st and 3d. All students with conditions should avail themselves of the opportunity, as special examinations are not held during the session.

CALENDAR FROM MAY 1, 1906, TO APRIL 30, 1907

1906

MAY							JUNE							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4 5						1 2		1	2	3	4	5	6	7
6	7	8	9	10	11	12	3	4	5	6	7	8 9		8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15 16		15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22 23		22	23	24	25	26	27	28
27	28	29	30	31			24	25	26	27	28	29 30		29	30	31				

AUGUST							SEPTEMBER							OCTOBER						
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5	6	7	8	9	10	11	2	3	4	5	6	7 8		7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14 15		14	15	16	17	18	19	20
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26	27	28	29	30	31		23	24	25	26	27	28 29		28 29	30	31				
							30													

1906-'07

NOVEMBER							DECEMBER							JANUARY						
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4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
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							30	31												

FEBRUARY							MARCH							APRIL						
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3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28			24	25	26	27	28	29	30	28	29	30				
							31													

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TWELFTH ANNUAL CATALOGUE

OF THE

State Agricultural and Mechanical
College

FOR THE

COLORED RACE

Greensboro, North Carolina

1906-1907

GREENSBORO, N. C.:

J. M. REECE & CO., BOOK AND JOB PRINTERS

1906

Calendar, 1906-1907

SEPTEMBER 1, 3—Entrance Examination and Examination for removal of conditions.

SEPTEMBER 4 —Registration Day.

SEPTEMBER 5—Fall Term begins.

NOVEMBER 30—Fall Term ends.

DECEMBER 3—Winter Term begins.

FEBRUARY 28—Winter Term Ends.

MARCH 4—Spring Term begins.

APRIL 21—Baccalaureate Sermon.

APRIL 25—Commencement.

APRIL 26 TO AUGUST 31— Vacation.

Holidays

THANKSGIVING DAY.

ARBOR DAY (Day after Thanksgiving).

CHRISTMAS VACATION.

Special Days

DOUGLAS' BIRTHDAY, Feb. 14 (Mechanical Society).

LINCOLN'S BIRTHDAY, Feb. 12 (Mechanical Society).

WASHINGTON'S BIRTHDAY, Feb. 22 (Agricultural Society).

MORRILL'S BIRTHDAY, April 14 (Agricultural and Mechanical Societies).

Board of Trustees

First Congressional District—W. R. WILLIAMS, Pitt County.

Second Congressional District—J. B. PHILLIPS, Edgecombe County.

Third Congressional District—W. H. HAMMOND, Jones County.

Fourth Congressional District—

Fifth Congressional District—J. I. FOUST, Guilford County.

Sixth Congressional District—D. D. CARLYLE, Robinson County.

Seventh Congressional District—

Eighth Congressional District—W. L. KLUTTZ, Rowan County.

Ninth Congressional District—J. O. ALEXANDER, Mecklenburg Co.

Tenth Congressional District—M. W. BELL, Cherokee County.

Members at Large

GEO. W. DUNLAP, Stanley County.

W. A. DARDEN, Pitt County.

W. J. NEWBURY, Duplin County.

J. B. MINOR, Guilford County.

R. W. MORPHIS, Rockingham County.

M. C. S. NOBLE, Orange County.

C. G. ROSE, Cumberland County.

W. A. ENLOE, Jackson County.

Officers of Trustee Board

J. I. FOUST, Chairman, Greensboro, N. C.

S. A. KERR, Secretary and Treasurer, Greensboro, N. C.

Faculty and Officers for 1905-6

JAMES B. DUDLEY, A. M., LL. D., PRESIDENT.

Wilberforce, LL. D. Livingston College, A. M. Teacher in Public Schools 1876-1880. Principal Peabody Graded School 1880-1896. Present position since 1896.

JOHN H. BLUFORD, B. S.

AGRICULTURE AND CHEMISTRY.

Howard University. "University Scholar in Chemistry." Graduate School, University of Pennsylvania 1899-1900. Graduate student, Chemistry and Agriculture, Cornell University 1900-1901. Third Assistant Principal, Instructor in Latin and English, Summer High School, St. Louis, Mo., 1901-1902. Present position since 1902.

ADAM WATSON, B. S.

HEAD MECHANICAL DEPARTMENT; PROFESSOR OF MECHANICS AND ARCHITECTURE.

A. & M. College, Greensboro, N. C. High Point Normal and Industrial School 1890-1901. Present position since 1902.

J. W. LANDRETH.

HEAD DEPARTMENT OF INDUSTRIES.

CHARLES H. MOORE, A. B.

PROFESSOR OF ENGLISH.

Amherst College, Mass. Principal Graded School, Greensboro, N. C., 1878-1880. Chair of Ancient Language, Bennett College 1885-1891. Present position since 1897.

S. P. SEBASTIAN.

INSTRUCTOR IN BOOK KEEPING, ASSISTANT TO PRESIDENT.

P. E. ROBINSON, B. Agr.

INSTRUCTOR IN DAIRYING AND VETERINARY SCIENCE.

A. & M. College, Greensboro, N. C. Present position since 1903.

C. D. ROBINSON, B. S.

PROFESSOR OF MATHEMATICS AND DRAWING, INSTRUCTOR IN WOOD
TURNING.

A. & M. College, Greensboro, N. C. Present position since 1903.

S. A. KERR.

SECRETARY AND TREASURER, LIBRARIAN, SECRETARY TO FACULTY,
REGISTRAR.

WILLIAM YATES.

INSTRUCTOR IN TINSMITHING.

J. A. BATEN.

INSTRUCTOR IN BRICKLAYING AND PLASTERING.

S. E. MILES.

INSTRUCTOR IN BLACKSMITHING.

W. N. NELSON, A. B.

INSTRUCTOR IN MANUAL TRAINING, CARPENTRY AND ASSISTANT IN
DRAWING.

I. R. FORD.

INSTRUCTOR IN BROOM MAKING.

JUNIUS ROOKS.

STEWARD.

J. ELMER DELLINGER, M. D.

COLLEGE PHYSICIAN.

Shaw University. Resident Physician and Surgeon in charge Leonard
Hospital and late Major and Surgeon Third North Carolina Vo-
lunteer Infantry, U. S. A.



WHEAT TO THE LEFT
OATS TO THE RIGHT
FARM BUILDINGS
IN THE DISTANCE



HARVESTING WHEAT
LOOKING NORTH



GARTONS TARTER KING
SPRING OATS



WHEAT HARVEST
LOOKING SOUTH

The Agricultural and Mechanical College

FOR THE COLORED RACE

This College was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, one from each Congressional District and five at large, who are elected by the General Assembly for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the president, instructor, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institution for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and support of Colleges for the

benefit of agriculture and mechanic arts to be applied "only to instruct in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The college also receives an appropriation from the State nearly equal to the Federal appropriation, for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriation.

The citizens of Greensboro donated fourteen acres of land and \$11,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year. A large dormitory, which cost \$6,000, and a green house have been added.

In the summer of 1895, the Mechanical Building, a large two-story brick structure, 38 by 119 feet, was erected at a cost of about \$9,000. This building, by the expenditure of about \$7,000, has been supplied with probably the finest and most modern equipments of any school in the State.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them and leaders of thought, to the grand opportunities offered by the State and aided by the United States, to the colored youth to thoroughly equip themselves for the battle of life, to prepare to successfully work their way as "breadwinners" and to secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.

Fully 80 per cent. of the colored people in this State live in the country and subsist on agriculture. The future of the colored race in the South depends upon the ownership of farm lands and their intelligent and skillful treatment by colored farmers. This field is free from competition and race feeling. Owners of large tracts of land now yielding nothing will be

only too glad to rent them to the skilled farmer who graduates from an agricultural college, and also to provide him with stock and implements of husbandary.

The young man who leaves this College, with honor, a good character and a well-trained mind, who is familiar with science and art relating to his calling in agriculture, mechanics or any of the trades, will not be compelled to canvass the country seeking employment. Capital will be looking for him to place him in charge of lands and stock, to handle machinery and direct unskilled labor. Wherever skilled labor is found among producers, turning the wheels of industry that increase the wealth of the world, there will be found graduates of the Agricultural and Mechanical College.

North Carolina is an agricultural State. Her manufacturing interests are increasing in a wonderful manner; her mineral resources are great, and the future of wealth lies in the hands of men who will guide her plow, care for her live stock, economically use her forests, drive her machinery, harness up her water powers and manufacture her iron and other products. The men who can do this *best* will be those who will qualify themselves for the work by a course in the Agricultural and Mechanical College.

There can be no rivalry between this College and other institutions of learning for the colored race in North Carolina. The paths to be pursued lead in different directions.

The Agricultural and Mechanical College for the Colored Race is unsectarian, and is under the control of no particular denomination. Religious and moral training will receive the closest attention, and students will be required to attend churches of which they are members. Ministers of all denominations are invited to interest themselves in the religious welfare of the College.

The College, broad in its purpose, practical in its work, elevating in its influences, is intended to assist and strengthen the colored people in all their efforts for industrial and intellectual advancement. As such, its peculiar mission must commend it to the intelligent colored men and women of the State, from whom the Trustees and Faculty confidently expect such

sympathy and support as will enable them to make the College of inestimable value to the people for whom it was instituted, as well as to the government by which it is fostered.

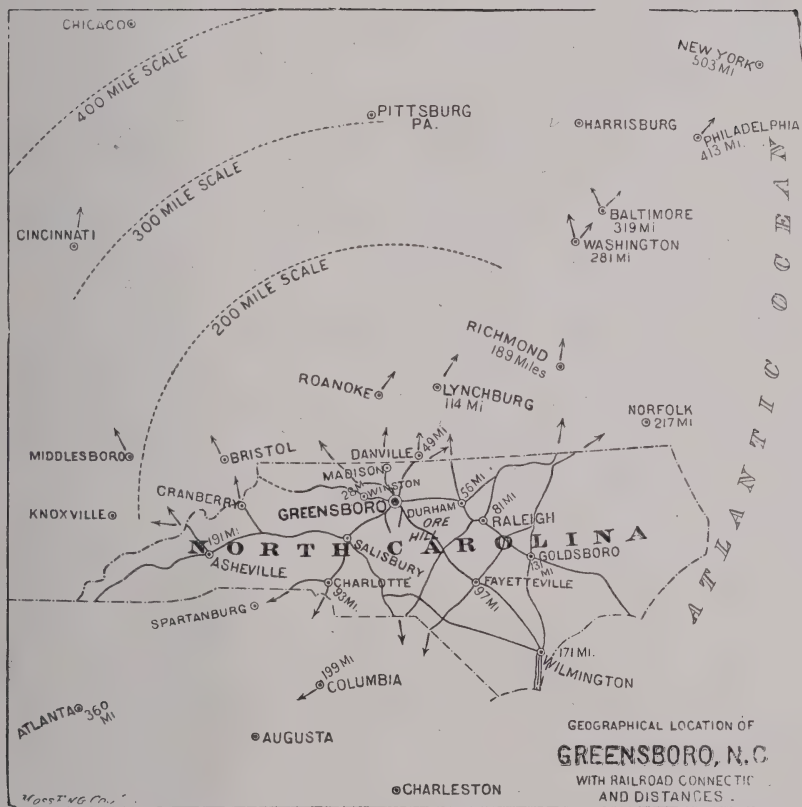
Location

It is most fortunate for the colored people that their Agricultural and Mechanical College was located in the prosperous and growing city of Greensboro. Its unsurpassed railroad facilities place it in rapid and direct communication with nearly all sections and make it the most accessible town in the State. From almost every section of the State Greensboro can be reached without change of cars. With the North Carolina Railroad, the Northwestern North Carolina Railroad, the main line of the Southern Railway, and the Atlantic and Yadkin Railway, Greensboro is a railroad centre, with fifty daily train arrivals and departures, which add greatly to the comfort and convenience of students and the traveling public generally.

Possibly nowhere in the State do as kindly inter-racial feelings exist and as friendly an attitude on the part of the white citizens toward the Negro education obtain as among the liberal-minded people of Greensboro. On every hand local sentiment is found to be kind, encouraging and responsive. Parents, educators and public men generally can possibly more confidently appreciate the friendly and liberal feeling prevailing in Greensboro by reverting to the significant fact that when the question of subscribing \$11,000 for the location of this institution in Greensboro was submitted to its citizens, but one man voted in opposition thereto.

Admission

The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public



schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 16 years of age; must understand fairly well the forms and rules of the English language; must be familiar with arithmetic, and have a knowledge of geography and history.

Students who have completed the eighth grade in the grammar schools will be admitted without examination.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

Tuition

Tuition is one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

Expenses

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise or guarantee can be made in advance to furnish such work.

Positively no student will be allowed to enter any department of the College without paying in CASH the first month's expenses, as stated below.

No student should expect to enter any department of the College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Tuition, per month.....	\$1.00
Lodging—use of room, bedding, etc., per month.....	1.00
Board, per month.....	5.00

SPECIAL PAYMENTS.

Incidental Deposit	\$1.00
Laboratory Fee, per term.....	25
Workshop Fee, per term (see Mechanical Department) ..	50
Dining Hall Fee, per year.....	1.00
Medicine Fee, per year.....	1.00

These charges are payable strictly in advance.

Any student not paying the charges exacted by the College will be excluded from all classes until settlement is made.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, work-shops and dining-hall when countersigned by heads of the Agricultural and Mechanical Departments, Steward, and President.

In addition to the above expenses the cost of text-books must be considered. This will amount to about \$12.50 per years.

Free tuition or county students will pay \$1.00 per month less than the above.

Students who are absent for less than two weeks will not be allowed a reduction of charges.

Board, lodging, medical, tuition, and incidental deposit must be paid to the Treasurer before the rooms are assigned and tickets of admission to class-rooms, work-shops and dining-hall are issued.

Supplies

Each student must bring a hairbrush and comb, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit \$1.00 to cover any charges which may be made against him for damages done.

From the standpoint of neatness and economy in dress each student should supply himself with a regular uniform as soon as convenient. These uniforms, including cap, which are of a very neat design, can be purchased through the college for \$11.00.

Rules for Governing Classification

I. Regular students must take a minimum of fifteen hours of credit work per term, at least three of which shall be industrial or manual training work.

II. Examinations for the removal of conditions will be held on the 1st and 3d of September, and at no other time than the regular term examination periods.

III. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably. Students will not be promoted from one class to a higher class who have more than two conditions in any preceding class.

IV. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

V. Any student failing to secure 50 per cent. of the total marks obtainable during any term, will be required to take a lower class or sever his connection with the College and be allowed to return the following session.

Graduation

Students graduating from the Trade School Course are entitled to Certificates.

Students are entitled to a Diploma of the College upon the completion of the prescribed course.

Candidates for graduation from the College, in addition to the work outlined in the catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible persons.

Degrees

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Agriculture.

Students graduating from Mechanical Course shall be entitled to the degree of Bachelor of Science.

General Information

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 cents per hour, for which they can get credit each month at the time of their advanced payment.

Students who have shown themselves exceptionally efficient, willing and trustworthy workers may, at the discretion of the head of department, receive a maximum rate of 12½ cents per hour. Students receiving aid by labor which they may secure at the College are requested to observe: (a) That credit on school expenses and not money, will be allowed for student labor, except when such exceed his school expenses; (b) that credit cannot be transferred from one student to another.

The Department of Industries operated by the school affords opportunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations, to be found on another page of this catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

There are two flourishing literary societies, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. The Faculty, by presence and advice, will seek to encourage these societies. Membership will be optional. The Faculty will also encourage the organization of technical societies, in which special objects in connection with agriculture, mechanics and chemistry, will be considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done, with safety; as the College cannot, nor does it desire to, wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

The *industrial* part of each course of instruction applies to all students, *and none will be excused therefrom.*

Library and Reading Room

A large and convenient room on the second floor in the main building has been arranged for a Library and Reading Room. The books have been purchased with great care and new ones are being added from time to time.

Col. T. B. Keogh, a former member of the Board of Trustees, made a valuable donation of books to the Library.

Reading rooms are also provided in the Agricultural and Mechanical buildings, where technical journals and books are kept for the convenience of students in these departments.

The Reading Room and Library tables are supplied with some of the best periodicals and the leading newspapers of the State. The students of the College are allowed to borrow books, periodicals and papers under necessary limitations. The Library and Reading Rooms are open every week day from 9 a. m. to 1 p. m., and from 2 to 6 p. m.

Industrial Museum

An Industrial Museum has been started and already valuable material has been collected. A number of donations have been made by several firms. We are especially indebted to the Standard Oil Company, of Chicago, Ill., for important samples illustrating the manufacture of gasoline, petroleum and lubricating oils of all grades; also to the German Kali Works for typical potash salts from famous Stassfurt mines in Germany. The American Enameled Brick and Tile Company have also sent us a number of fine specimens of tile, brick and terra cotta goods. Specimens of students' work have been contributed by the various departments each month.

Rules and Regulations

1. The signal for rising will be given at 5:45 a. m. Dressing and arranging rooms 5:45 to 6:30 a. m.. Breakfast 7:00 to 7:30 a. m. Morning session, 9:00 to 1:00 p. m. Drill 8:00 to 8:30. Chapel 8:30 to 9:00 a. m. Dinner from 1:00 to 2:00. Afternoon session 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper 6 to 6:30 p. m. Study 7:00 to 9:30 p. m. Retiring signal 9:45 p. m. Lights out, 10:00 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or indulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Mendacity or dishonesty in any form will not be tolerated. Students guilty of such offenses will be *promptly dismissed*.

3. Students shall promptly attend prayers and chapel services and all specific recreations, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the *main building* by the students, is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect College duties, or who absent themselves from College grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their children or wards to attend.

7. Any student shooting or having on his person, in his room, or on the College premises, rifles, spring guns or fire arms of any kind whatsoever will be given 25 demerits.

8. The use of tobacco, spirits, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of the College grounds, or in the buildings. Students are for-

bidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory building.

12. At all times the students shall deport and express themselves respectively toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands made by any member of the Faculty shall be held guilty of contempt of authority and punished accordingly.

13. No student will be retained after he has received thirty-four demerits in any one term of a session.

14. Every new student must be vaccinated, or present a doctors certificate that he has been vaccinated within two years before entrance.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishonesty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

19. Students and visitors are not permitted to walk on grass plots. Students will be demerited for this offence.

By order of

THE BOARD OF TRUSTEES.

Religious Culture

While the College is not a denominational institution, proper attention is given to the cultivation of a broad, liberal Christian spirit. Short devotional exercises are held each evening, which are attended by the boarding students. At 8:30 a. m., each school day short devotional exercises are attended by all students. In the direction of religious culture, in addition to these very brief meetings and the fuller meetings of the Y. M. C. A., and the A. & M. College Sunday School, during the past session we have enjoyed a splendid series of instructive and spiritual sermons, for which we are indebted to the following named reverend gentlemen :

Rev. M. L. Baldwin, Congregational Church, Greensboro.

Rev. B. P. Hairston, St. Matthew's M. E. Church, Greensboro, N. C.

Rev. W. R. Tolliver, Providence Church, Greensboro, N. C.

Rev. J. H. Harris, Mt. Sinai Church, Greensboro, N. C.

Rev. A. G. Poole, Bethel A. M. E. Church Greensboro, N. C.

Rev. R. L. Houston, A. M. E. Z. Church, Greensboro, N. C.

Dr. J. P. Morris, Bennett Collegè.

Rev. T. D. Atkins, Shiloh Baptist Church.

Outline Course of Study

FIRST YEAR CLASS—FALL TERM.

A. M.—Arithmetic, 6; English, 6; Geography, 3; Agriculture, 3; Reading and Writing, 3; Music, 3.

P. M.—(Greenhouse, 2; Shop, 6; and Drawing, 2) or (Greenhouse, 2; Shop, 4; and Drawing, 4).

WINTER TERM.

A. M.—Arithmetic, 6; English, 6; Geography, 3; Reading and Spelling, 3; Physiology, 3; Material of Construction, 2; Music, 1.

P. M.—(Greenhouse, 2; Shop, 6; Drawing, 2); or (Greenhouse, 2; Shop, 4; Drawing, 4).



CLASS IN GENERAL, CHEMISTRY



SOIL, AND FODDER ANALYSIS

SECOND YEAR CLASS—FALL TERM.

A. M.—Arithmetic, 6; Breeding, 6; English, 6; Physiology, 6.

P. M.—Shop Work, 6; Drawing, 4.

WINTER TERM.

A. M.—Arithmetic, 6; English, 6; Study of the Breeds, 6; Veterinary Science, 4; Book Keeping, 2.

P. M.—Shop Work, 6; Drawing, 4.

SPRING TERM.

A. M.—Algebra, 6; English, 6; Veterinary Science, 3; Market Gardening, 3; Book-keeping, 3.

P. M.—Shop Work, 6; Drawing, 4.

THIRD YEAR CLASS—FALL TERM.

A. M.—Physics, 6; English, 6; Algebra, 6; House Planning, 6.

P. M.—(Agricultural Students—Chemistry, 6; Butter Making, 4. Mechanical Students—Shop Work, 6; Drawing, 4).

WINTER TERM.

A. M.—Physics, 6; English, 6; Algebra, 6; Drawing, 3; Heating and Ventilating, 3.

P. M.—(Agricultural Students—Chemistry, 6; Dairying, 4. Mechanical Students—Shop Work, 6; Drawing, 4).

SPRING TERM.

A. M.—English, 6; Geometry, 6. Agriculture—Bacteriology, 3; Veterinary Science, 3; Physical Geography, 6. Mechanism—Wood Carving, 3; Contracts, 3; Specification, 4; Plumbing, 2.

P. M.—(Agriculture—Chemistry, 6; Orchard Practice, 4. Mechanics—Shop Work, 6; Drawing, 4).

FOURTH YEAR CLASS—FALL TERM.

A. M.—English, 6; Geometry, 6. (Agricultural Students—Entomology, 6; Botany, 6). (Mechanical Students—Machine Shop, 6; Mechanism, 6).

P. M.—Agricultural Students—Agricultural Chemistry, 6; Market Gardening, 4. Mechanical Students—Shop Work, 6; Drawing, 4.

WINTER TERM.

A. M.—English, 6; Trigonometry, 7. (Agricultural Students—Chemistry: Quantitative Analysis and Organic, 8; Botany, 3). (Mechanical Students—Mechanism, 9; Shop Work, 2).

P. M.—Agricultural Division—Entomology, 6; Feeds and Feeding, 4. Mechanical Division—Shop Work, 6; Drawing, 4.

SPRING TERM.

A. M.—Trigonometry, 6; Civics, 3; English, 3; Thesis, 3. Agricultural Division—Agricultural Chemistry, 6; Feeds, 3. Mechanical Division—Machine Shop, 6; Strain Diagram, 3.

P. M.—Agricultural Division—Field Practice, 6; Quantitative Analysis, 4. Mechanical Division—Shop Work, 10.

The Academic Department

JAMES B. DUDLEY. *President.*

C. H. MOORE,

S. P. SEBASTIAN.

English Grammar. The aim is to enable the student to speak and write the English language correctly. Recognizing the fact that grammar drill develops in students logical habits of thought, besides giving them greater command of language, special attention will be given to the analysis and construction of sentences and the principles of elementary composition.

U. S. History.—The leading facts, causes and sequences showing the growth of our country and national history, will be studied with a view to develop true patriotism.

Other Branches of Study.—Instruction is also given in Spelling, Reading, Writing, Geography, Book-keeping and Civics.

Geography

COURSE I.—A course in Geography of the United States, British America, Mexico, Central America, West Indies, South America.

COURSE II.—Europe, Great Britain and Ireland, Asia, Africa, Australia and Oceania. Maury's Manual Geography is the text-book used.

English

PROFS. JAS. B. DUDLEY AND C. H. MOORE, *Instructors.*

FIRST YEAR—FALL TERM.

COURSE I.—Six hours. The Sentence. The Paragraph, Dictation Exercises. Abbreviations. The Comma. Constructions, Oral and Written Compositions.

WINTER TERM.

COURSE II.—Course I. required. Six hours. The two parts of a Statement, Proper and Common Names. When to use Capital Letters, Number and Progressive Forms, Words that Describe, Transitive and Intransitive Verbs, Composition Work.

SPRING TERM.

COURSE III.—Course II. required. Six hours. Letter Writing and other Composition Exercises. Book: Hyde's, Part II.

SECOND YEAR—FALL TERM.

PROF. C. H. MOORE.

COURSE IV.—Course III. required. Six hours. The Sentence, Subject and Predicate, The Different Parts of Speech, Phrases and Clauses.

WINTER TERM.

COURSE V.—Course IV. required. Six hours. Sub-division of Parts of Speech and Inflection, Syntax, Structure and Analysis of Sentences.

SPRING TERM.

COURSE VI.—Course V. required. Six hours. Composition Work and the Study of the English Language. Book: Buehler's.

THIRD YEAR—FALL TERM.

PROF. C. H. MOORE.

COURSE VII.—Course VI. required. Six hours. The Art of Writing English, Grammatical Phrases of Writing English, Organizing the Theme, Choice of Words, Composition Work.

WINTER TERM.

COURSE VIII.—Course VII. required. Six hours. Source of English Vocabulary, Letter Writing, Reproduction, Abstract, Narration and Description, Exposition and Argument. Book: "First Book in Writing English."—*Lewis*.

SPRING TERM.

COURSE IX.—Course VI. required. Six hours. English Composition and Word Building, Advanced Parsing and Analyses.

FOURTH YEAR—FALL TERM.

COURSE X.—Course VI. required. Six hours. English Composition, Logic (complete). Text-book: W. S. Jevons.

WINTER TERM.

COURSE XI.—Course VI. required. Six hours. Political Economy (complete). Text-book: W. S. Jevons.

SPRING TERM.

COURSE XII.—Course VI. required. Six hours. Evangeline (Longfellow), Julius Cæsar, The Vicar of Wakefield, and other works as may be selected by teacher from best American authors. Thesis work.

Throughout the courses IV. and XII., the reading matter from the best authors, preferably Whittier, Poe, Longfellow, Dunbar, and best foreign authors will be selected by teacher for the class. Some of which will be learned for recitation and explanation.

BOOK-KEEPING—SECOND YEAR.

PROF. S. P. SEBASTIAN, *Instructor.*

WINTER TERM.

COURSE I.—Terms and Definitions—Entry in Journal, Trial Balance, Posting, Receipts, Bills. Two hours.

SPRING TERM.

COURSE II.—Posting continued, Ruling, Balance Sheet, Pass Book, Writing of Checks, Closing Ledger, Loss and Gain Account, Partnership. Both courses consist of forty envelopes with exercises embracing all the elementary principles of Book-keeping, and is given as office practice. Three hours.

Book used: Twentieth Century Book Keeping and Office Practice. J. W. Baker.

CIVICS.

PROF. J. B. DUDLEY, *Instructor.*

SPRING TERM—FOURTH YEAR.

COURSE I.—Constitution of the United States and of North Carolina, General Duties and Responsibilities of Citizenship, etc. Three hours given to Fourth Year Class.

Department of Agriculture and Chemistry

J. H. BLUFORD, *Head of Department.*

P. E. ROBINSON, *Assistant.*

W. F. ROBINSON, *Florist.*

In this department thoroughly practical instruction is given in the various arts and sciences pertaining to agriculture, so as to enable the student to intelligently understand the nature of soils, fertilizers, plant growth, feedings, breeding, farm drainage, methods of cultivation, plant and animal diseases, etc. We aim to train not only the hand and the eye, but we endeavor also to train the mind; in other words, we train the youths to become rational farmers.

All our class-room work finds its complement either in the field, the garden, the green-house, the orchard, the barn, the dairy, or the chemical laboratory.

EQUIPMENT.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn harvester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for butter making, such as United States Cream Separator, seven Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, etc., thus enabling us to offer the very best course in butter making. We have recently added apparatus and utensils for cheese making for home consumption.

A ninety-ton silo has also been erected for which silage is



DAIRY AND BARN.

raised every year. A St. Albans Shredder is used for cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

The farm is stocked with a good heard of milch cows.

Different crops such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wutzel, potatoes, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on, on the farm, illustrating the effect of different methods of cultivation and fertilization of several crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The green-house is maintained to aid the student in the study of botany and care of flowers. Instruction is also given in the management of a Green-house on a commercial scale.

Market gardening is practised on a small scale for the purpose of giving the student practice in the management of early truck lands.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and re composition of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so complete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and

accessories, and Atwood's machine, Port Lummere and Stereoptican for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases, Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Lyden jars for induction and distribution of electricity, compound microscope, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration with the stereoptican or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball bearing balance, 50 cc. flasks with ground glass stoppers drawn out to an open capillary tube for specific gravity work; brass tubes 12 1/2 x 1 7/8 inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture a set of brass tubes 16x1 7/8 inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five-gallon tubes 30x1 7/8 inches inside measurement for determining the capillary attraction of soils.

A detailed description of the courses offered by this department follows:

Description of Courses

A. Industrial Courses--Practical Horticulture

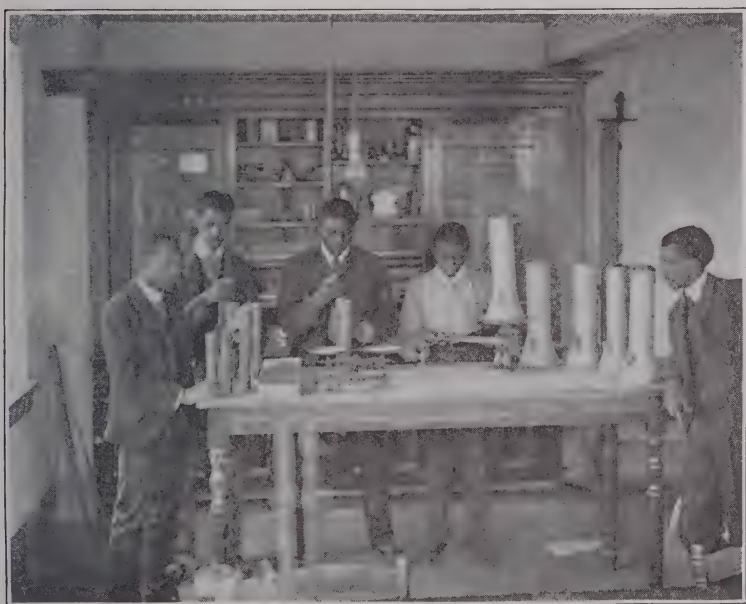
FALL TERM—MR. W. F. ROBINSON.

COURSE I.—GREENHOUSE MANAGEMENT. Two hours. Required course III. English. First year students.

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms.



MILK TESTING



CLASS IN SOIL, PHYSICS

WINTER TERM—MR. W. F. ROBINSON.

COURSE II.—PROPAGATION OF PLANTS. Two hours. Required courses I. Industrial and III. English. Given alternately with Course III.

Practice is given in making cuttings, in potting, rooting, grafting, building, etc. He is also taught how to prepare various fungicides and insecticides, how and when to apply them.

SPRING TERM—MR. W. F. ROBINSON.

COURSE III.—MARKET GARDENING. Three hours. Required courses I. Industrial and III. English.

Practice is given in transplanting plants from the green house or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale.

FALL TERM—MR. P. E. ROBINSON.

COURSE I.—CARE OF LIVE STOCK. Two hours. Required course III. English.

The student is required to go into the various barns of the college and obtain practice in feeding cows, horses, hogs, chickens, etc.; to learn various methods of feeding and make records of feeding experiments, to study the milk records and compare same with the various types of dairy cows.

WINTER TERM—MR. P. E. ROBINSON.

COURSE II.—MILK AND CREAM TESTING. Four hours. Required course III. English.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in the College. He also becomes expert in testing cream for acidity according to at least two methods.

Lectures and recitation work will be given on the composition, secretion and production of milk.

FALL TERM—MR. P. E. ROBINSON.

COURSE III.—BUTTER MAKING. Four hours. Required courses II. Industrial and III. English.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc.

SPRING TERM—MR. P. E. ROBINSON.

COURSE IV.—MANAGEMENT OF DAIRY. Three hours. Required courses III. Industrial and III. English, I. and II. B. C.

The student is expected to go into the dairy and take charge of the work under the supervision of an instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making.

B. Courses in Agriculture

FALL TERM—PROF. BLUFORD.

COURSE I.—ELEMENTARY PRINCIPLE OF AGRICULTURE. Three hours. Open to all. Daily.

This term's work is designed to give the student a sort of bird's eye view of the whole field of agriculture in an elementary way. It will be freely illustrated by experiments. Text: Elementary Agriculture, Burkette, Stover and Hill.

FALL TERM—MR. P. E. ROBINSON.

COURSE II.—PHYSIOLOGY. Six hours.

In addition to reiteration work, the student is required to cut up one or more animals and study the various organs in detail. Text: Hutchinson's Physiology and Hygiene.

SPRING TERM—PROF. BLUFORD.

COURSE III.—PHYSICAL GEOGRAPHY. Six hours. Open to all.

The course is illustrated by means of lantern slides and experiments. Text: Tarr's Physical Geography.

FALL TERM—MR. P. E. ROBINSON.

COURSE IV.—BREEDING. Six hours. Required courses III. English and II. Agriculture.

Such subjects as atavism, variation, selection, heredity line breeding in and inbreeding are discussed. Collateral reading required. Text: Breeding.—*Shaw*.

FALL TERM—MR. P. E. ROBINSON.

COURSE VII.—ENTOMOLOGY. Six hours. Required courses II. Horticulture and VI. English.

The subject is taught by means of lectures and the student is required to read up on topics assigned him by the instructor. The most common insects and insectitūdes are studied.

SPRING TERM—MR. P. E. ROBINSON.

COURSE V.—BACTERIOLOGY. Six hours. Required courses II. Horticulture and Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work.

SPRING TERM—MR. W. F. ROBINSON.

COURSE VIII.—FORAGE. Three hours. Required course VI. English.

Lectures are given on the adaptability of the various crops that can be successfully and profitably grown in North Carolina to special soils, methods and seeding; preparation of seed bed and pasturing are also discussed. Collateral reading required.

SPRING TERM—PROF. BLUFORD.

COURSE IX.—PLANT DISEASES. Three hours. Required course VII. Agriculture.

Lectures and laboratory work. Common diseases, such as the cereal nests and insects; diseases of cotton, tobacco and fruit trees are studied with the aid of the compound microscope.

WINTER TERM—PROF. BLUFORD.

COURSE X.—FEEDING. Five hours. Required courses III. Agriculture and V. and VI. Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, market and food value of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding ratios for the various farm animals are carefully considered. Collateral reading required. Text: *Feeding of Animals.—Jordan.*

FALL TERM—MR. P. E. ROBINSON.

COURSE XI.—VETERINARY SCIENCE.. Four hours. Required course XI. Agriculture.

The common diseases of farm animals are briefly discussed,



STUDYING PLANT STRUCTURE



INTERIOR VIEW OF FORCING HOUSE

together with remedies for same. Some practical work in caring for sick animals is also provided the student. Text: Veterinary Elements.—*Hopkins*.

SPRING TERM—PROF. BLUFORD.

COURSE XII.—METEROLOGY. Two credits. Required course
XII. Agriculture.

Movements of the atmosphere, character of wind, cyclones, tornadoes, thunderstorms, and weather forecasting are discussed.

C Course in Physics

J. H. BLUFORD, *Instructor.*

COURSE I.—Three hours. Course III. Mathematics required.

The work of the first term consists of five lectures and recitations per week, the subject covered being Mechanics, Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work.

COURSE II.—HEAT, MAGNETISM AND ELECTRICITY. Three hours.

Course I. Physics desired. Course IV. Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring and hanging electric bells. Special attention is given to the various kinds of galvanic cells, their uses and relative values. The course is made as practicable as possible, so that a student on leaving the college can take up the work of a practical electrician.

COURSE III.—SOUND AND LIGHT. Three hours. Course II. desired, V. Mathematics.

This is a continuation of Courses I. and II. and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

COURSE IV.—AGRICULTURAL PHYSICS. Five credits. Required courses III. Physics and V. Chemistry and I. Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: *Agricultural Physics.—King.*

COURSE V.—PHYSICAL LABORATORY WORK. Three hours.
Courses I. II. and III. required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, Heat, and Electrical Measurements.

COURSE VI.—AGRICULTURAL PHYSICS LABORATORY WORK. Two hours. Courses I. II. and III. required.

This course will accompany Course IV. with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work.

D. Courses in Horticulture

SPRING TERM—PROF. BLUFORD AND MR. W. F. ROBINSON.

COURSE I.—BOTANY. Five credits. Desired course I. Horticulture.

Such subjects are how the plant takes up food from the soil and the atmosphere. The effect of sunlight, air and moisture on plants are noted. Diseases of plants and remedies for same are discussed in an elementary way. Given in connection in Course I. Agriculture. Text: Elementary Botany.—*Bailey*.

WINTER TERM—MR. W. F. ROBINSON.

COURSE III.—PROPAGATION OF PLANTS. Three credits.

Method of propagating plants by cutting, stalons, suckers, layering seed, etc., are discussed. The principles underlying budding, grafting and pruning are also discussed. Text: Principles of Plant Culture.—*Goff*.

WINTER TERM—MR. W. F. ROBINSON.

COURSE IV.—SMALL FRUIT CULTURE. Two credits. Required courses III. Horticulture and III. English.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the proportion of soil for same.

SPRING TERM—MR. W. F. ROBINSON.

COURSE V.—MARKET GARDENING. Three credits. Required course IV. Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, special fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: Vegetable Gardening.—*Bailey*.



STOCK JUDGING



STUDYING HEAT AND RATE OF PERCOLATION OF WATER THROUGH SOIL

SPRING TERM—MR. W. F. ROBINSON.

COURSE VI.—POMOLOGY. Two credits. Required courses IV. Horticulture and VI. English.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit is discussed. Text: Fruit Growing.—*Bailey*.

WINTER TERM—MR. W. F. ROBINSON.

COURSE VIII.—LANDSCAPE GARDENING. Two credits. Required course VI. Horticulture.

Principles of embellishing landscapes, planting and management of woodlands, management of forests are discussed. Text: Landscape Gardening.—*Maynard*.

E. Courses in Chemistry

WINTER TERM—PROF. BLUFORD.

COURSE I.—GENERAL CHEMISTRY. Three credits. Required course II. Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture room, which bear directly on and pave the way for Agricultural Chemistry.

SPRING TERM—PROF. BLUFORD.

COURSE II.—GENERAL CHEMISTRY. Three credits. Required course I. Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimeographed Notes.

FALL TERM—PROF. BLUFORD.

COURSE III.—QUALITATIVE ANALYSIS. Three credits. Required course II. Chemistry.

Laboratory work. During this term the student becomes familiar with testing and especially the fourteen which enter into the composition of plant and animal life.

WINTER TERM—PROF. BLUFORD.

COURSE IV.—QUALITATIVE ANALYSIS. Two credits. Required course III. Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Appleton's Qualitative Analysis.

SPRING TERM—PROF. BLUFORD.

COURSE V.—AGRICULTURAL CHEMISTRY. Two credits. Required course IV. Chemistry.

Lectures on the chemical composition of soils, plants and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed.

FALL TERM—PROF. BLUFORD.

COURSE VI.—QUANTITATIVE ANALYSIS. Five credits. Required course IV. Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of various agricultural products.

SPRING TERM—PROF. BLUFORD.

COURSE VII.—ANIMAL TOXICOLOGY. Two credits. Required courses I. II. III. and IV. Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning; the pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc.



MECHANICAL BUILDING

Department of Mechanics

A. WATSON, *Head of Department.*

C. D. ROBINSON,
Assistant and Instructor in Shops.

W. N. NELSON,
Instructor in Wood Working and Painting.

WM. YATES,
Instructor in Tinsmithing.

S. E. MILLS,
Instructor in Blacksmithing.

J. R. FORD,
Instructor in Broom Making.

J. A. BATEN,
Instructor in Bricklaying, Plastering and Stonefitting.

There are two most valuable possessions which no search warrant can take away, no reverse of fortune destroy. They are what is put into the brain; knowledge; and into the hand: skill.

The work in this department is designed to give the student such a combination of knowledge and skill that he may be something more than an ordinary mechanic or an impracticable theorist.

From the beginning of the first year the time is divided between the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufacturing in and around Greensboro, and every lecture and exercise will be illustrated so far as possible, and the practical application pointed out.

It is recognized at the outset that a knowledge of how to make and read drawing is necessary to success in mechanical work, and further that both practical knowledge and mathe-

mathematical science are necessary in preparing any reliable drawing or interpreting the same. The courses as laid down are designed to make the student familiar with either machine shop practice, or building design construction.

The Trustees and Faculty have decided that the first two year's work in this department shall be conducted as a trade school.

The first and second year students will, therefore, select the special line they wish to pursue, and will be required to continue in that special work during the two years. After that time, those who wish to graduate from the institution, will be given an opportunity for instruction in the other shops and will perfect themselves in mathematics, science and drawing.

EQUIPMENT.

This department is well equipped for the work in hand and other machinery will be added from time to time as required.

The department building is a substantial modern structure, two stories and basement. On the first floor are the joinery, wood-turning shop, machine shop and model room; in the basement of the rear wing is the smith shop, paint shop, tin shop, wood working machine shop, with stock room, and adjoining this is the boiler and engine rooms.

The lecture room can be made dark at a moment's notice and the sunlight used to illustrate on a permanent screen. Water and power are at hand for use, also gas. A dark room is fitted up for photographic use and for experiments requiring it.

In mechanics, a full collection of materials of construction will be provided, so that students can study them from observation as well as from text. A museum of models in mechanism and construction has been begun and will be added to as required. A reading room is provided in the building, well supplied with books of reference and technical journals. This is open at all times to the students. The equipment in drawing consists of tables, drawing boards and T squares. Students will provide themselves with instruments, which will be arranged for at lowest rates; also paper, pencils, ink, and en-



MACHINE SHOP



CARPENTER SHOP

tire set of drawing tools may be rented for 75 cents per term if paid in advance.

In free-hand drawing a full set of models with a sufficient number of tables is provided. Alcoves are arranged for teaching shading, and the rooms are well lighted and heated.

The wood-working shop is equipped with twelve double benches, provided with patent vises and stops, twenty-four complete sets of joiners and wood-worker's tools. Each set is arranged in a neat wall case, having a glass door and combination lock. Each student in wood-working has a set of tools and is responsible for them. There is also a large case of tools for the instructor and for general use. The shop is also supplied with a 36-inch band saw, a surface planer, a universal wood-worker, with attachments for sawing, ripping, dadoing, jointing, tenoning and boring, a swing-saw, a pattern maker's lathe, twelve small turning lathes, an emery wheel and a grindstone.

The machine shop is equipped with six engine lathes, shaper, drill-press, vises, test plates and a full assortment of hand tools.

The forge shop is equipped with twelve patent, downdraft Bugalo forges, each having an anvil, set of tongs, flatters, fullers, etc., also slack-tub and coal box. The blast for the forges is supplied by a 40-inch fan, placed in the corner of the shop and connected to the main shaft. The smoke is exhausted by the same fan and forced out at the side of the building. There is also one portable hand force for use when the machinery is not running. Two work benches, supplied with vises, stock and dies, taps, files, etc., also a mandrell sledge, and leather aprons, complete the equipment in this shop.

The power plant consists of a 30-horse-power Root water tube boiler of latest design, and a 35-horse-power Skinner automatic engine of the latest pattern. There are also two smaller engines for experimental and farm work. The exhaust steam is used for heating when the shops are running. All accessories, such as steam feed pump, feed water heater, oil separator, reducing and back-pressure valves, etc., are in constant use.

The Westinghouse Electric & Manufacturing Company, of Pittsburg, has presented us with a sixty-light direct current dynamo; also a complete set of incandescent and arc lights.

The tin shop is fully equipped with machines for doing all kinds of tin work, and this shop supplies the cans for the canning industry carried on in other departments and around vicinity, machines for ornamental work, such as cornices, gutters, finials, etc., will be added as soon as necessary.

Instruction in the following trades has been provided:

Blacksmithing and general repairing.

Horseshoeing.

Tinsmithing.

Broom-making.

Wood-turning.

Bricklaying and Plastering.

Wheelwrighting.

Painting and decorating.

Machinist work.

Heating, plumbing and gas fitting.

Students in this department will begin free-hand and mechanical drawing in the Fall term of the first year. They will be required to make a regular graduate set of models and exercises in the various lines they pursue, from drawings furnished by the departments, after which they will design their own work, under the supervision of the instructors in charge. All work will be executed from drawings in order to familiarize the student with the preparation of and reading the same.

The course in mechanical drawing will be varied to suit the different trades and will be as practical as possible.

Advanced students will be required to do considerable technical reading, under the direction of the professors in charge, and the third and fourth year men will be required to write at least two technical essays during each term. These will be read at the bi-weekly meetings of the students of the department held to hear lectures on technical subjects and to discuss the papers read. A full line of technical journals will be on

file for the use of students, and the books in the department library are always accessible for reference.

Students, candidates for graduation in this department will, at least, do thirty hours of shop-work, eighteen of which must be in one line of work.

Students taking wood-work, tin-work, or machine shop-work will be required to take instrumental drawing from the beginning of their course. Other trades require free-hand drawing only.

A special course of two years will be given students taking wood-turning as a trade.

Text-book will be required on all trades in the Mechanical Department, and an examination will be given in the same at the end of each term.

Text-books of all class room work will be purchased by the students.

Students must supply themselves with books and instruments.

Tools must be purchased by students:

Machine Shop.—Thread gauge and prick punch, steel scale and scratch all, screw pitch gauge.

Blacksmith Shop.—Apron and cap, one foot rule, one calipers.

Tin Shop.—Dividers, ruler, scratchall and aprons.

Carpenter Shop.—Cap, apron, dividers, jack-knife pencil and rule.

Wood turning.—Cap, apron, dividers, pencil and rule.

Bricklaying.—Overalls, cap, trowels, square and rule.

Broom and Shoe shops.—Aprons, rule, pencil and knife.

HOUSE PLANNING—FOURTH YEAR.

PROF. A. WATSON.

COURSE I.—MECHANICS OF BUILDING. Two hours. Courses II. Mathematics, QII. Drawing, III. English required. Note-book only.

The first term consists of lectures and drawing exercises in

the use of materials. The analysis of strains in grinders, beams, columns and rods. The graphic methods is used as well as the analytic. Ten plates.

COURSE II.—Two hours. Course II. required. Note book.

Consists of graphic analysis of trusses, arches and walls, and their proper design and construction. The work is made entirely practical and many original problems will be worked out. No text-books required. Twelve plates.

COURSE III.—PLUMBING. Two hours.. Courses I. Technology, I. Physics, III. and IX. Drawing required. One term.

Consists of lectures and drawing. The various methods of disposals of sewerage and drainage are explained also. The best kind of sanitary appliances, defective methods and material receive attention; and a course in technical reading is required on this subject in connection with the lectures. Sketches and scale drawings for plumbing plants will be called for as the lectures describe the same. Facilities will be given for inspecting work under construction in the city.

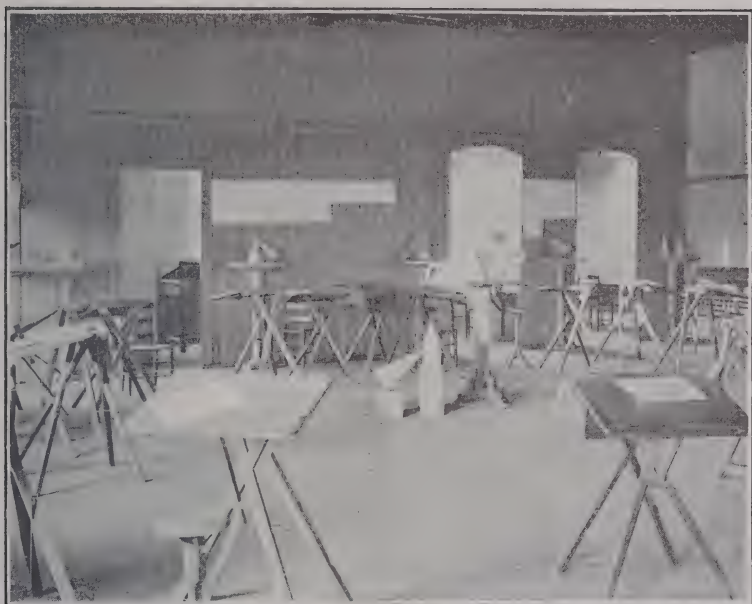
COURSE IV.—HEATING-VENTILATING. Two hours.

This course comprises lectures and drawing exercises in the various methods of heating buildings. Fire-places receive attention first, then stoves and furnaces are discussed. After this the different methods of steam and hot water heating receive attention, and working drawings and details are required. The sizes of flues, boilers, pipes and radiators are determined and comparative estimates made of cost. In connection with this work students may take shop courses in steam and water fitting and tin work adapted to furnaces and stoves.

THIRD YEAR.—PROF. CHAS. D. ROBINSON.

COURSE V.—CONTRACTS, ESTIMATES AND SUPERVISION WORK. Two hours. Course V. required, also II. drawing. One term.

This course consists of lectures, exercises and reading. The law of contracts is explained, and the forms of building con-



FREE HAND DRAWING



TIN SHOP

tracts, plastering wall contracts, subcontracts, etc., are given in full. Sets of working drawings and specifications are given for estimate, and specification work outlined. The chief points in supervision of work is dwelt upon and the student is advised in the matter of handling men and materials to the best advantage.

FOURTH YEAR—PROF. CHAS. D. ROBINSON.

COURSE VI.—ARCHITECTURE. Three hours. Course IX. Drawing. One lecture per week. One hour of reading and three hours of drawing will be required in this course. One term.

The subjects will comprise Egyptian, Greek, Roman, Byzantine, Romanesque, gothic and modern styles. Their history, development and constructive features will be brought out, and the drawing will serve to illustrate and fix the same in the minds of the students. Students desiring to take the lectures only, may do so, receiving one hour credit. Open to third and fourth year students.

FOURTH YEAR—PROF. A. W. WATSON.

COURSE VII.—PHOTOGRAPHY. Two hours.

This work consists of practical amateur work in handling the camera, developing, dry plates, blue printing and silver printing, and mounting of prints. Practice in lantern slide-work is also given, and practical work in enlarging or reducing for this purpose, is required. This course is not intended to produce photographers, but is an adjunct in mechanical work. Open to Seniors only, except by special permission.

COURSE VIII.—MECHANISM. Three hours. Courses VIII. and XI. Mathematics, required.

The work consists of recitations and drawing exercises, illustrating the various principles of mechanism. This work paves the way to intelligent machine designing, and required of those taking advanced work in machinery.

FIRST YEAR—PROF. CHAS. D. ROBINSON.

COURSE IX.—MATERIALS OF CONSTRUCTION. One term. Two hours. No previous work required. Notebook only.

Two lectures per week during one term are devoted to a description of the various materials entering into ordinary buildings. Attention is given to methods of their manufacture and preparation, defects and special uses. The subjects include stone, cement, brick, iron, steel, copper, tin, lead, zinc, alloys, wood, glass, paints, hardware and furnishings. The lectures are elementary and are illustrated as far as possible by means of models, specimens, and lantern views.

SHOP FEES.

No charge is made for the use of tools or apparatus, but a small fee, 50 cents per term, to cover cost of material, is charged.

Students are held responsible for tools, instruments and apparatus used.

DRAWING—FIRST YEAR.

PROF. CHAS. D. ROBINSON.

COURSE I.—FREE-HAND. Four hours. One term.

Flat copy, including squares, circles, symmetrical figures and conventional forms are taught during first term. Eighteen plates will be required, three of which are original designs by the student.

COURSE II.—FREE-HAND. Four hours. Course I. desired, but not required. One term.

Perspective and sketching from models is taught during the first part of this term, and shading of solid forms afterward. Twenty plates are required for passing.

COURSE III.—FREE-HAND. Four hours. Course II required. One term.

The work of this term consists of sketching from miscellaneous objects, both from nature and mechanics. Special attention is also given to the preparation of free-hand work in

drawings. Elevations, perspective, sections and details of machines and parts are required to be made. All work is original, no copies allowed. Eight plates required.

SECOND YEAR—PROF. W. N. NELSON.

COURSE IV.—INSTRUMENTAL DRAWING. Three hours. Course open to all. One term.

Instruments and text. This work begins with the use of instruments, their care and special attention. The student also studies practical Geometry from text and draws the problems as described. All work is neatly traced in ink and carefully lettered. Fifteen plates required.

COURSE V.—PROJECTION. Two hours. Course IV. required. One term.

The science of representing objects according to the standard methods of projection is taught in this course. The use and nature of the scale is also given at this time. The work comprises lectures and exercises in regular plan and elevation work, also in isometric projection. Fifteen plates are required, five of which must be original.

COURSE VI.—Two hours. Course V required. One term.

The work of this course will consist of special lessons in connection with the various trade courses. The application of courses IV. and V. will be made to the needs of the manual training work. Fifteen plates are required, five of which are original.

COURSE VII.—ELEMENTARY CONSTRUCTION. Two hours
Courses III. and VI. required.

This course consists of occasional lectures, with exercises in drawing of various construction details in the several trade courses, especial attention being given to building and machine work. Students are required to make careful scale drawings of the problems given, and to keep notes of the lectures. Twelve plates will be required for passing.

COURSE VIII.—ELEMENTARY CONSTRUCTION. Two hours.
Course VII. required.

Lectures and drawing. Continuation of course VII. Color work, both pencil and brush, will be introduced in this course. Detailing will also be taught. Eighteen plates required.

FOURTH YEAR—PROF. A. WATSON.

COURSE IX.—Two hours. Course XI. required.

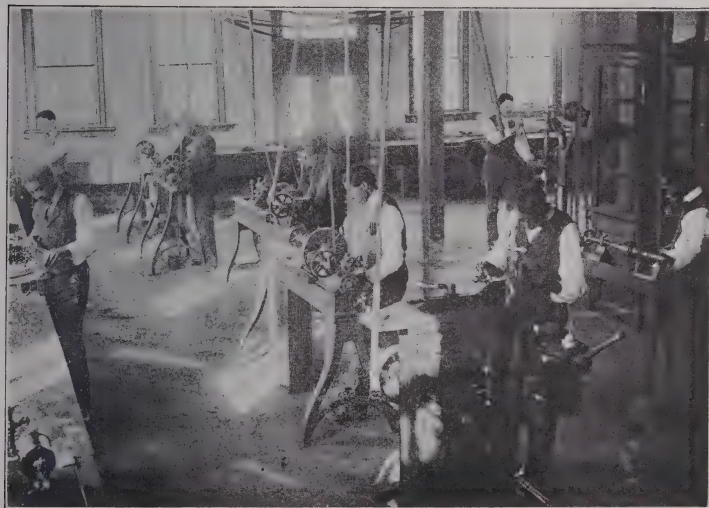
This will consist of advanced design with full working details for same. Practice in taking of quantities and making estimates will be given. Outline specifications will be required in this term.

COURSE X.—Two hours. Mechanics, History of Architecture, course XII. required.

Advanced architectural designs, including perspective and color drawing, complete sketches, working drawings and specifications are required; also complete estimates and quantities.



WOOD TURNING



POWER WOOD SHOP

Arithmetic

PROF. C. D. ROBINSON, *Instructor.*

FALL TERM—FIRST YEAR.

COURSE I.—Six hours. United States Currency, Fractions.

WINTER TERM.

COURSE II.—Six hours. Relations of Numbers; Ratio and Proportion, Equation, Compound Numbers.

SPRING TERM.

COURSE III.—Six hours. Longitude and Time, Practical Measurements, Metric Systems.

FALL TERM—SECOND YEAR.

COURSE IV.—Six hours. Percentage, Interest, Discount, Stock and Bonds, Proportional Parts, Partnership.

WINTER TERM.

COURSE V.—Six hours. Involution, Evolution, Mensuration, Compound, Proportion, Insurance, Exchange, Specific Gravity.

SPRING TERM.

COURSE VI.—Six hours. Algebra.

Applied Mathematics

THIRD YEAR.

COURSE I.—ALGEBRA. Six hours. Course VI. in Arithmetic required.

This course comprises the elements of Algebra through quadratics. All unnecessary matter is left out, and the application of each principle is pointed out. The first term takes the work through fractions. Text: Milne's Elements.

COURSE II.—ALGEBRA. Six hours. Course I. in Algebra required. Text as above.

Beginning at simultaneous equations, and completing quadratic equations.

COURSE III.—PLANE GEOMETRY. Six hours. Course II. in Algebra required.

Wells's Elements are used in this course, omitting many propositions not easily applied. This course finishes book I. Text: Wells.

COURSE IV.—GEOMETRY. Six hours. Course III. Plane Geometry required.

Continuation of Course III. Completing books II. and III.

FOURTH YEAR.

COURSE V.—GEOMETRY. Six hours. Course IV. Geometry required.

This course completes books IV. and V. and reviews the whole work. Elementary conic sections are also given.

COURSE VI.—SOLID GEOMETRY. Six hours. Course V. Geometry required.

Wells' Solid Geometry is used and the practical parts only are required. Special attention is given to finding areas and volumes of various solids.

COURSE VII.—TRIGONOMETRY. Seven hours.

COURSE VIII.—TRIGONOMETRY. Six hours.

Blacksmithing

PROF. S. E. MILES.

COURSE I.—Six hours. No requirements. Elective.

The work of this course consists of learning the names and uses of tools, building and managing fires, forging and shaping iron. All work is done from drawings, and the student is re-



MACHINE SHOP



BLACKSMITH SHOP

quired to complete at least fifteen models of the prescribed course before credit is allowed.

COURSE II.—Six hours. Course I. and course II. drawing required.

Welding iron is taught during this term, and a full exposition of the art given. The student is required to work from models and drawings, and fifteen exercises must be submitted. Bolt and nut making are also given in this course.

COURSE III.—FORGING, WELDING AND TEMPERING STEEL. Six hours. Course II. and course III. drawing required.

This work is intended to give the student a knowledge of working steel in various forms. The making of laid in edge tools, tempering springs, hammers, cold-chisels, cutters, drills, etc., is fully illustrated and the student encouraged to make tools for his future work. Students preparing for machine shop work are required to make a full set of lathe tools, cold chisels and hammer for their future machine shop work. Ten models required.

COURSE IV.—HORSESHOEING. Six hours. Course III. drawing, course III. B. S. required. One term.

The making of shoes for various special uses will be taught during this term, and reasons given for each form. The anatomy of the hoof is also studied, and wrong methods pointed out. The student will also receive instruction in general repairing of farm machinery.

A set number of models will not be required in this year, as students in the last year of their trade work are expected to be sufficiently interested in their work to employ their time to best advantage.

Wood-Working

PROF. W. N. NELSON.

COURSE I.—JOINERY. Six hours.

Students in this work are required to take courses I. and IV. in drawing

The use of the plane, tri-square, gauge saw and chisel are exemplified and the general care of edge tools explained. Fifteen models from drawings required to pass.

COURSE II.—Six hours. Course I. and courses I. and IV. drawing required.

The brace and bit are introduced in this course, and also the level square; practice in mortising and mitering is given; grinding and setting planes are taught. Fifteen models; ten copies, five original.

COURSE III.—Six hours. Course II. and courses II. and V. drawing required.

This term is given to practical application of principles learned. Jointing and gluing are taught, and dovetailing; saw filing and setting also is required of each student. All work to be done from student's designs.

COURSE IV.—Six hours. Courses II. and III. required.

COURSE V.—Six hours. Course IV. required.

Wood-turning, face-plate work, turning rosettes, cups, rings, balls, etc. Ten models from copy and ten from original designs required.

COURSE VI.—Six hours. Course V. required.

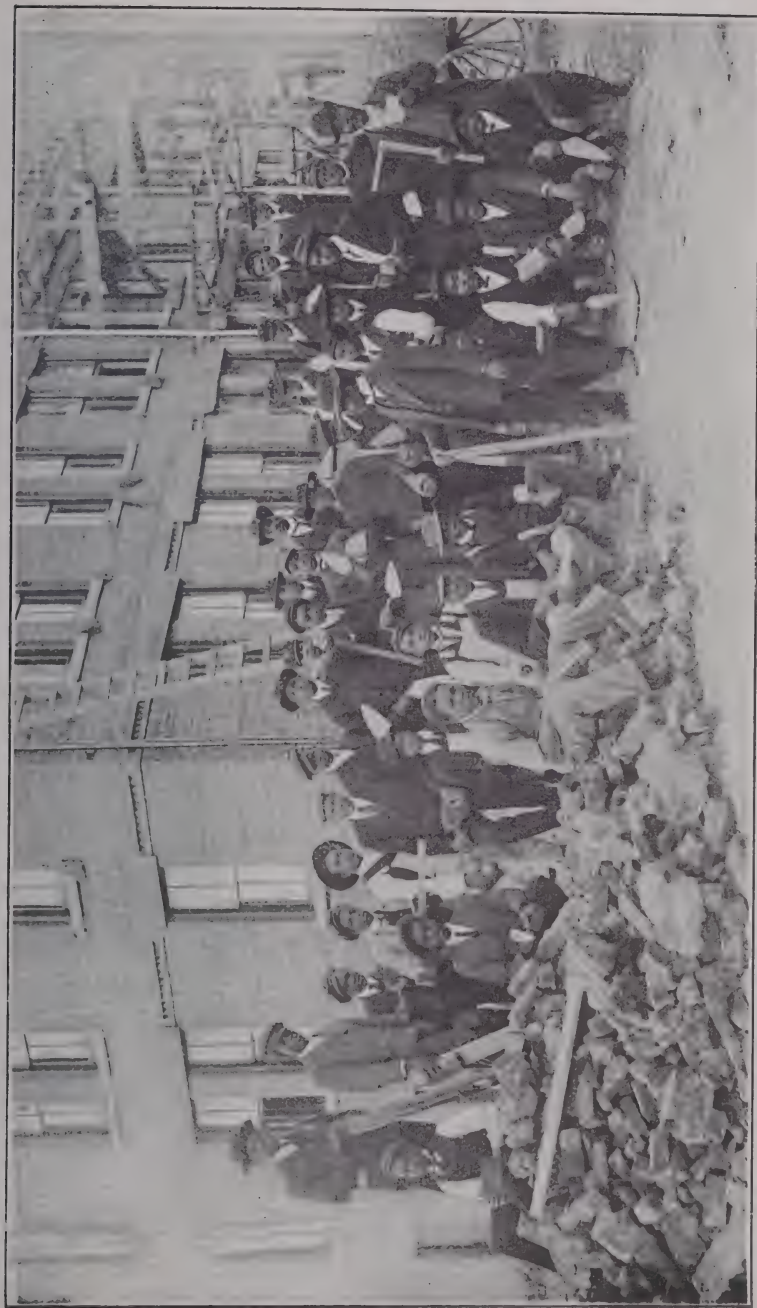
General construction work in carpentry or joinery or cabinet work. All work to be made from student's own designs.

Machine Shop

PROF. A. WATSON.

COURSE I.—Two hours. Courses III. and VI. drawing, III. Blacksmithing required. First term.

The work of this term will be given mainly to chipping and filing. No time will be spared to fully fix in the mind of the student the value of the tools used in this work and the names of the same. Ten models required to complete the course.



BUILDING UNDER CONSTRUCTION BY A. & M. STUDENTS

COURSE II.—LATHE WORK. Three hours. Courses I. machine work and VII. drawing required.

During the time in this course the student will be taught how to centre different shaped objects and the various outs made by an engine lathe. Some knowledge of how to use the drill and reamer on live and dead centres. Ten models required, including one original piece.

COURSE III.—DRILLING MACHINE. Three hours. Courses II. machine work and drawing required.

Laying out work by brickmarks and lines will be given special attention. Drilling of different kinds of material with certain speed will occupy much of the time in this work. Speeds and feeds for different size drills must be carefully studied. Ten models will be required to complete this course.

COURSE IV.—BLANKS FOR GEARS AND THREAD CUTTING, INTERIOR AND EXTERIOR. Three hours. Courses III. machine work, IX. drawing required.

Blanks for gears of various sizes and positions will be cut and faced on the lathe. Addendum line will be found by student. Threading of different kinds of material, both interior and exterior diameters, together with worms and cylinder cans, will constitute the bulk of the work of this course. Ten models required, three of them original.

COURSE V.—SHAPES WEEK. Three hours. Courses IV. machine work, X. drawing required.

The work of this course will be original throughout, and no student will be allowed more than four models and not less than two, except in very difficult problems. The work will include gear cutting and the general assembly of parts of complete machines.

Tin Work and Pipe Fitting

WM. YATES, *Instructor.*

COURSE 1.—Six hours. No requirements.

The work of this course consists of familiarizing the student

with the various tools, machines and materials used in the trade, and in cutting and plane soldering. Making cans, cups, etc., from patterns is required of the student for passing.

COURSE II.—Three hours. Course I., and I. and IV. drawing required.

Continuation of course I., introducing sheet iron work riveting, bending, guttering, making joints, elbows and Ts from furnished patterns.

COURSE III.—Three hours. Course II. required.

Constructing general tinware from student's own patterns. Six models required. Principles of flat and standing seam working also taught.

COURSE IV.—Three hours. Courses III. and VI. drawing. III. tinwork required.

Cornice work, stamping, brazing, working from original designs of student.

COURSE V.—Five hours. Course IV. required, and VII. Drawing.

Pipe-fitting, joining cast iron, wrought iron, brass and lead pipes, use of pipe machine, stocks and dies, cutters, etc., is taught, and reasons given for methods used.

COURSE VI.—Three hours. Course V. required.

Furnace work, ornamental tin and sheet metal work, exhibition work.

Bricklaying

PROF. J. A. BATEN.

COURSE I.—Two hours.

In this course spreading mortar, use of materials and instruments excavating and grading will be given in its practical ways. Excavating for drains, dry wells., furnace pits, air ducts, etc., to be given special attention. Theory.



SPECIMENS OF WOOD WORK



WOOD TURNING

COURSE II.—Two hours.

This course will cover the use of plumb rule, bob and square, brick and concrete footings, specifications for stone work, foundation walls basement piers, mortar, external walls and rubble. Theory at interval.

COURSE III.—Two hours.

This course will cover, anchors and clamps, cleaning and painting walls, bonding of all kinds will be given special attention, laying out of walls, angles, corner piers, plumbing and leveling.

COURSE IV.—Two hours.

Cutting and fitting bricks to suit angle, corners and footing laying out and building chimneys.

COURSE V.—Two hours.

This course will prepare the student to construct all classes of arches and hollow walls. The use and advantage of the arches and walls will be given special attention, colored mortar, chimneys, flue lining, timbles, and cold air ducts are specialties radius line and arch-board. Theory and practice.

COURSE VI.—Two hours.

In this course fire walls, ventilators, setting iron work, setting cut stone, terra cotta, and specifications for laying masonry in freezing weather will be given, stack building, furnace work. Theory and practice.

COURSE VII.—Two hours.

This course will be a reviewing of the preceding courses and specifications for fire proofing and terra cotta trining will be given students in its simplicity, running cornices, parapet walls, striking arches, jointing, speed contest in spreading mortar and laying brick.

COURSE IX.—Two hours.

In this course are taught how to use pressed brick, trowel, and mortar, laying pressed brick, coloring mortar, building

pressed brick pilasters, cornices and the use of the eye in plumbing.

COURSE X.—Two hours.

In this course are taught laying out of buildings in full, reading from plans, calculating of materials, calculating of daily work, of brick in polygons, frustum, circular cesspools, and conica brick-work.

COURSE XI.—Two hours.

Use of the theodolite and rod, reading of the rod, how to find the rise and fall in foundations and in drains with the theodolite and rod, calculations.

COURSE XII.—Two hours.

Superintendence, how to keep employees busy, how to avoid mistakes, the treatment of walls in freezing and rainy weather.

Lathing and Plastering

PROF. J. A. BATEN, *Instructor.*

COURSE I.—Two hours.

This course shall cover the kind of material used, how mixed for good quality work, one coat and three coat work will be discussed, the use of the tools and application of mortar to wall, furring and lathing.

COURSE II.—Two hours.

In this course, band finish, hard finish, white coat, pebble dash, will be given, use of the derby and float, screed and larry.

COURSE III.—Two hours.

This course will compromise specifications for both metal and wood lath, how to put on both iron and wood walls, lime wash, white wash and filling.

COURSE IV.—Two hours.

In this course are taught use of finishing tools, molds, joint-

ing rule, stopping and pricking tools and pargeting stamps.

COURSE V.—Two hours.

In this course are taught, running of cornices, making molds and designs, distempering and calsomining.

COURSE VI.—Two hours.

Stucco, sgraffito, scagliola, calculation and superintendence.

Stone Fitting

COURSE I.—Two hours.

Excavation, "lay out" of rubble work, grades of rubble work, use of sprawl hammer, line practice.

COURSE II.—Two hours.

Ashlar work, rubble work with brick-quoins, dressed joints, coursed and broken ashlar; kinds of stones.

COURSE III.—Two hours.

Finished stone work, use of the pean hammer, points, chisels, pitching tool, bull set, how to edge work.

COURSE IV.—Two hours.

Use of the bush hammer, and chisel, how to lay edged work, squaring and edging stones.

COURSE V.—Two hours.

Winding, draft lining, rock facing, broaching, fine pointing and bush hammering.

COURSE VI.—Two hours.

Beveling, water tableing, angle fitting, making of lintel and skewbacks, calculation and superintendence.

Wheelwrighting

PROF. S. E. MILES, *Instructor.*

COURSE I.—Two hours.

This course will cover making of spoke gauge, traveling wheel, anvil clamp, and light tools to be made by students.

COURSE II.—Two hours.

Setting up of wheel, reaming spokes and fitting rim.

COURSE III.—Two hours.

Different styles of rim finish, grades of hubs, and why used. Details and specification.

Broom Making

MR. I. R. FORD, *Instructor.*

COURSE I.—Two hours.

Names of tools used in manufacture of brooms, kinds of material, dyeing and separating of the hull from the inside.

COURSE II.—Separating No. 1, hull from No. 2 hull and No. 1 inside from No. 2 inside. All grades of materials will be used and special attention is given in selecting material for high-grade brooms.

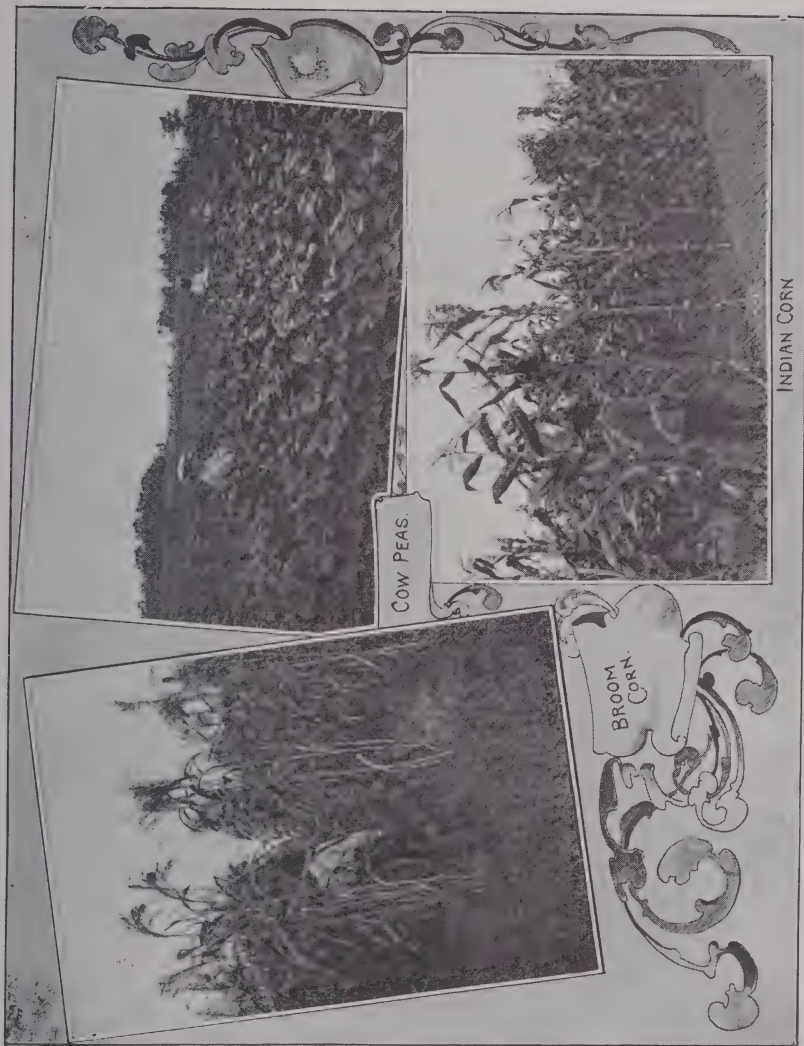
COURSE III.—Two hours. COTTING AND STEMMING.

This is to give the student knowledge of how to build up the inside of the broom and to make it stout, long or short.

SECOND YEAR.

COURSE IV.—WIRING AND STITCHING.

COURSE V.—FANCY WORK.



FARM SCENES

Department of Industries

J. W. LANDRETH, *Head*.

This department is run primarily from a commerical point of view to accomplish a three-fold purpose, viz:

To give revenue to the college.

To give employment to needy and deserving students.

To supplement by practical work the theoretical instruction of the class room.

The department comprehends the following industries:

Broom Factory. The broom factory is equipped with all the necessary machinery for converting the broom-corn, raised on the farm, into the most useful article of the household—the broom. The college finds a ready market for the output of the factory in its immediate vicinity.

Brick Yard. The brick yard is equipped with a power brick machine made by J. C. Steele & Sons, Statesville, N. C., a repress for making pressed brick, two Steele's patent trucks, back boards and brick covers. The machinery is propelled by a 25-horse-power Atlas automatic engine of the latest design and a 30-horse-power Atlas return tubular boiler of the newest pattern. There is also a dry kiln in course of construction which will, when completed, enable the plant to be operated during the entire year.

The Farm. A farm of 125 acres, is well stocked, and equipped with the most improved farm machinery and labor-saving devices. Corn, wheat and potatoes are the most important crops, while vegetables are grown to such an extent as the market demands.

A ninety-ton silo has been erected which is filled with corn silage each year which is cut in the field with a corn harvester and cut up for the silo by a St. Albans shredder.

The Green Houses. The college has three green houses: one for forcing a variety of flowers, such as roses, hyacinths, freesias, ferns, narcissus, palms and other rare plants; another,

used exclusively for the forcing of carnations for market, and a third, for forcing early vegetables.

The Dairy. The dairybuilding and apparatus for instruction purposes is also used by the Department of Industries for the separation and bottling of milk for market and for manufacturing butter and cheese. The college has a herd of thirty-eight cattle.

The Piggery. The piggery is well equipped and modern. It is stocked with pure bred and high-grade Berkshires and Poland-China hogs.

Night School

P. E. ROBINSON, *Superintendent.*

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best that the conditions will permit will be given, and students attending the night school may eventually arrange to enter the day school. Courses completed in the night school receive the same credit as if completed in the day school.

It is especially desirous that the young men of the city who are employed during the day will avail themselves of this opportunity.

To enter the night school, the applicant should be sixteen years of age, and he should first secure work. This may be done by sending written application immediately to "The Department of Industries, A. & M. College, Greensboro, N. C."

NIGHT SCHOOL SCHEDULE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	SATURDAY
7.30	Arithmetic	English	Arithmetic	English	Arithmetic
8.30	Write & Spell	Geography	Write & Spell	Geography	Write & Spell
9.30	Reading	Reading	Reading	Reading	Reading

Medals and Prizes

Mr. E. W. Richie, '05, was awarded the "Hagans Medal" for the best general record in English subjects during the four years' course.

The Odell Hardware Company prizes consisting of two gold medals, were awarded respectively as follows:

E. W. Richie, '05, for the efficiency in drawing.

J. I. Johnson, '05, for the highest general average in Agriculture.

Prof. A. Watson, Head of the Mechanical Department gave a set of drawing instruments which was won by P. P. Watson, '05, for efficiency in Mechanics.

Mr. Wm. M. Ladd, Portland, Oregon, gave \$25.00. \$15.00 of which were given to Mr. R. L. Reaves, '07, for making the highest average in Academic studies of the second year; \$10.00 to Mr. J. H. Smith, '08, for making the highest average in the Academic course of the first year class.

Mr. R. L. Reaves received a gold medal for punctuality and regularity of attendance at the choir practices for the preparation of the Music for Commencement exercises.

Organizations

The growth of the institution made it necessary for two general literary organizations, known as "The Agricultural Literary Society" and "The Mechanical Literary Society."

The Y. M. C. A. is an organization of great and most wholesome influence among the students.

The Agricultural Literary Society

Wiley McCaskill	President
Oliver Carter	Vice-President
John H. Smith	Secretary
Thomas A. Rivera	Treasurer
Chas. A. Scott	Editor
W. K. Neal	Chaplain

The Mechanical Literary Society

James E. Reid	President
J. C. Truman	Vice-President
Samuel Cotton	Secretary
Seaton Baldwin	Assistant Secretary
R. J. Frederick	Treasurer
Robt. L. Reaves	Chaplain
C. G. Davis, A. N. Darden.....	Editors

The Y. M. C. A.

Thomas Leach	President
Robert L. Reaves	Vice-President
Chas. B. Reid	Secretary
Oliver Carter	Treasurer

Athletic Association

OFFICERS.

C. G. Davis	President
E. Smith	Vice-President
J. C. Truman	Recording Secretary
Robt. L. Reaves.....	Corresponding Secretary
Thomas Leach	Treasurer
J. L. Eaton	Custodian

Sunday School

Chas. D. Robinson.....	Superintendent
W. N. Nelson	Assistant Superintendent
R. L. Reaves.....	Secretary and Treasurer
T. A. Rivera	Pianist
W. M. Luther	Librarian



NORTH DORMITORY

AGRICULTURE AND ADMINISTRATION BUILDING

MECHANICAL BUILDING

LIST OF STUDENTS

FIRST CLASS YEAR.

Abrams, John	South Carolina
Allen, Joseph	Durham County
Alexander, William	Catawba County
Alexander, James	Catawba County
Barnes, B. W.	Edgecombe County
Baldwin, Seaton	Durham County
Ballance, J. A.	Bertie County
Beck, Eugene	Forsyth County
Berry, G. N.	Orange County
Bigelow, O. H.	Caswell County
Bigelow, H. E.	Caswell County
Blackwell, J. W.	Virginia
Blount, John	Franklin County
Boyd, J. B.	Florida
Brittain, Frank	Buncombe County
Brown, Vecue	Catawba County
Byarm, A. L.	Mecklenburg County
Byarm, L. P.	Mecklenburg County
Byers, Edward	Mecklenburg County
Carter, Napoleon	Cumberland County
Cochrane, Robert	Catawba County
Conner, D. P.	Lincoln County
Cosner, John	Catawba County
Cotten, R. R.	Guilford County
Cooper, Joseph	Bertie County
Cowan, T. W.	Iredell County
Craig, C. R.	Orange County
Crawford, Lucien	Wilson County
Davis, J. H.	Edgecombe County
Dockery, A. L.	Richmond County
Douglass, Alexander	Scotland County
Downs, Jno. R.	Forsyth County
Eaton, James Lorenzo	Wake County
Edmondson, W. A.	Guilford County
Evans, George F.	Forsyth County
Fennell, William	Wilson County
Forrest, L. F.	Stanley County
Foster, Edward	Guilford County
Frederick, R. J.	Duplin County
Frost, R. O.	Currituck County

*Deceased.

Fulp, C. W.	Forsyth County
Goldston, D. M.	Chatham County
Harrisson, M. L.	South Carolina
Harrisson, R. H.	South Carolina
Harris, J. A.	New Hanover County
Holt, William	Orange County
Holmes, W. H.	Chatham County
Howell, W. J.	Granville County
Ingram, W. H.	Anson County
Johnson, Samuel E.	York, Pennsylvania
Johnson, H. B.	Buncombe County
Johnson, Chas. J.	Catawba County
Jones, Geo. W.	Polk County
King, A. C.	Caswell County
Lindsay, Chas.	South Carolina
Little, W. H.	Union County
Little, Moultrie,	Anson County
Lowery, J. C.	Mecklenburg County
Luther, William	Anson County
Mabrey, Samuel	Catawba County
Malone, R. W.	Caswell County
Markham, W. H.	Durham County
Maske, J. D.	Anson County
Mercer, Hilliard	Currituck County
Mitchell, Umerous	Durham County
Mitchell, J. B.	Forsyth County
Mills, William	Polk County
Miller, Loetus	Buncombe County
Morrissey, John	New Hanover County
Murrell, Richard D.	Lincoln County
McCoy, Clarence	Anson County
McGhee, James	Georgia
McGimpsey, J. R.	Burke County
*McKnight, R. E.	Franklin County
McKenzie, Jno. E.	Guilford County
McClelland, D. E.	Scotland County
McLendon, D. L.	Anson County
Neal, W. K.	Franklin County
Nelson, Fred	Guilford County
Nixon, J. L.	Lincoln County
Page, U. S.	Durham County
Pipkins, A. L.	Scotland County
Pickett, Thomas	Pender County
P. B.	Edgecombe County
Pryer, H. J.	Franklin County



House Designed by A. A. Oldham, Class of 1904



This Building shows the work of C. H. R. Gill, an undergraduate. It is the residence of Dr. Melchor, Fayetteville, N. C.

Quick, W. A.	Richmond County
Reid, Chas. B.	Anson County
Roberson, Michael	Guilford County
Robinson, Thomas E.	Scotland County
Robinson, J. P.	Catawba County
Robinson, J. A.	Catawba County
Russell, Arthur,	Guilford County
Samples, Jno. N.	New Jersey
Sellars, E. L.	Alamance County
Shaw, A. A.	Durham County
Simons, Matthew	Currituck County
Smith, C. H.	Franklin County
Stredwick, Jno. W. Jr.	Wake County
Taylor, L. T.	Wilson County
Taylor, T. J.	Granville County
Thacker, W. D.	Guilford County
Thomas, Augustus	South Carolina
Threadgill, J. L.	Anson County
Waddell, D. de LaFayette	Guilford County
Walker, Edward	Guilford County
Watson, Thomas	Chatham County
Waugh, George	Guilford County
Whitted, Fred	Wayne County
Whitted, J. L.	Guilford County
Wilkins, J. W.	Durham County
Winstead, A. C.	Wilson County
Wooden, A. J.	Chatham County
Yarborough, Douglass	New Hanover County

SECOND YEAR.

Alston, A. J.	Warren County
Artis, W. B.	Wayne County
Bailey, N. A.	Chatham County
Cotten, Samuel	Chatham County
Darden, A. N.	Wilson County
Ellerbee, Clingman	Wake County
Flow, B. D. A.	Mecklenburg County
Foster, Chas. L.	Guilford County
Froneberger, M. A.	Gaston County
Foy, Monroe	Forsyth County
Galloway, E. A.	Guilford County
Green, W. N.	Warren County
Jackson, Fred H.	Wayne County
Johnson, E. J.	South Carolina
Jordan, Jno. F.	Guilford County
Lamb, Jno. L.	Virginia

Merrick, Edward,	Durham County
Patillo, S. D.	Warren County
Powell, Wylie	Wilson County
Reid, C. M.	Cabarrus County
Richardson, Thos. J.	Anson County
Robinson, W. A.	Durham County
Smith, J. H., Jr.	Franklin County
Wood, Ulrich	Guilford County

THIRD YEAR.

Caesar, Robert	Surry County
Carter, Oliver	Cumberland County
Donnell, Clyde	Stanley County
Foster, J. O.	Guilford County
Keck, Willie	Guilford County
Leach, Thomas	Chatham County
McCaskill, Wylie	South Carolina
Prather, Joseph	Wake County
Reaves, R. L.	Chatham County
Rivera, Thomas A.	New Hanover County
Sanders, M. S.	South Carolina
Scott, Chas. A.	Wayne County
Smith, Edward, Jr.	Wake County
Spaulding, J. W.	Bladen County
Truman, J. C.	Durham County
Williams, C. B.	New Hanover County

FOURTH YEAR.

Ford, I. R.	Rutherford County
Greenlee, N. B.	Buncombe County
Hawkins, J. A.	Wake County
Johnson, W. T.	Rockingham County
McRae, S. D.	Davidson County
Rand, Jno. M.	Wake County
Stewart, Needham	Scotland County

SPECIAL STUDENTS.

Baldwin, M. L., Rev.	Guilford County
Fonville, H. F.	Guilford County
Jones, L. A.	Pender County
Keeble, Wm.	Guilford County
Lee, Jas. A.	Davidson County
Morgan, C. W.	Durham County
Moore, S. B.	Durham County
Reid, Jas. E.	Guilford County
Waddy, J. C. (Dr.)	Guilford County
Prof. Arisatuke Faduma.....	Montgomery County

DISTRIBUTION OF STUDENTS.

North Carolina	155
South Carolina	8
Virginia	2
Georgia	1
Florida	1
New Jersey	1
Pennsylvania	1
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Total	169



House designed by A. A. Oldham, Class of 1904

LIST OF GRADUATES

1899.

"No steps backwards"

Cheek, W. T. C.	Dinwiddie, Va.
John A. Dix. Ind. School.	
Cunningham, I. S.	
Curtis, A. W.	Institute, W. Va.
Agriculturist, West. Va. Col. Institute.	
Falkener, E. L.	Enfield, N. C.
Farm Supt., J. K. Brick School.	
Joyner, J. M.	Philadelphia, Pa.
Robinson, P. E.	Greensboro, N. C.
Asst. Dept. Agr. & Chem. A. & M. College.	
Watson, A.	Greensboro, N. C.
Mech. Dept. A. & M. College (Director).	

1900.

"By our efforts we rise"

*Best, C. H.	Newport News, Va.
Green, J. H.	High Point, N. C.
Industrial Department, N. & I. School.	
Moore, R. D.	Wilmington, N. C.
Postal Clerk.	
Neal, J. P.	Winston-Salem, N. C.
Plummer, E. S.	Brooklyn, N. Y.
Mechanic.	
*Quick, J. R.	Greensboro, N. C.
Robinson, Chas. D.	Greensboro, N. C.
Mechanical Department A. & M. College.	

1901.

"Fortune favors the brave"

Colson, E. F.	Enfield, N. C.
Kittrell College, Kittrell, N. C.	
Edwards, G. A.	Raleigh, N. C.
Teacher, Manual Training, Shaw University.	
Grimes, Frances E.	Charlotte, N. C.
Wharton N. & I. School.	

1902.

Bullock, Mrs. H. A.	Greensboro, N. C.
Housekeeper.	

*Deceased.



FOOTBALL TEAM, A. & M. COLLEGE

Henderson, A. P.....	Raleigh, N. C. Teacher, Graded School.
Hepler, T. H.....	Claremont, Va. Agriculturist, Claremont Ind. School.
Holcombe, A. J. P.....	Raleigh, N. C.
Garrett, Mrs. F. E.....	Greensboro, N. C. Teacher.
Mebane, A. L.....	Princess Anne, Md. Agriculturist, Princess Anne Academy.
Quinn, Wm.....	Raleigh, N. C. Mechanic, D. & B. Institute.
White, W. A.....	

1903.

"More beyond"

Alexander, W. G.....	Brooklyn, N. Y. 422 Elton St.
Amey, Chas. C.....	High Point, N. C. Blacksmith, Normal and Industrial School.
Burnett, A. C.....	High Point, N. C. Agriculturist, High Point N. & I. School.
Forney, H. G.....	Enfield, N. C. Agriculturist, J. K. Brick School.
Haywood, Burke.....	Raleigh, N. C. Mechanic.
Holmes, J. W.....	Raleigh, N. C. Architect, St. Augustine School.
Hunter, C. C.....	West Raleigh, N. C.
Jefferson, C. B.....	
McLendon, J. B.....	Topeka, Kansas Mechanic, N. & I. School, Topeka, Kansas.
Robinson, R. R.....	Irma, Ala. Agriculturist, Kowaliga School, Alabama.
Robinson, W. F.....	Greensboro, N. C. Florist, A. & M. College.
Yores, Edward	824 N. 13th St., Philadelphia, Pa.

1904

"Through the dust to the stars"

Chance, W. C.....	Washington, D. C. Student, Howard University.
Edward, W. T.,....	607 Lincoln St., Wilmington, Del. (Siler City, N. C.)
Greenlee, Percy C.....	New Haven, Conn.
Jones, L. A.....	Rocky Mount, N. C.
Oldham, A.....	Greensboro, N. C. Architect.

Ramseur, L. L.....Newton, N. C.
Teacher.

*Reaves, W. V.....Glendon, N. C.

1905.

"Thus ends our first lesson"

Hooper, L. B.....Ekron, West Va.

Johnson, J. I.....Claremont, Va.

Lamb, W. M.....Dinwiddie, Va.

Agriculturist, John A. Dix School.

Richie, E. W.....Spartanburg, S. C.

25 Wolwick St.

Turner, R. R.....Boston, Mass.

Watson, P. P.....Claremont, Va.

T. & I. Institute.

SPECIALS.

Jones, G. W.....Greensboro, N. C.

Carpenter.

Prather, E. A.....U. S. S. Maine.

Machinist.

GRADUATES OF THE PREPARATORY DEPARTMENT.

Class of 1900.

Alston, Sarah V.....Raleigh, N. C.

Carter, Alma J.....Reidsville, N. C.

Teacher.

Colley, J. C.....Durham, N. C.

Cotton, Lillian.....Hampton, Va.

Student Hampton Institute.

Davis, L. E.....Wilmington, N. C.

Davis, Mary O.....Hillsdale, N. C.

Davis, R. T.....Wilmington, N. C.

*Dudley, S. Inez.....Greensboro, N. C.

Dunham, P. Wm.....Euloria, S. C.

Farrington, Bertha.....Greensboro, N. C.

Hooper, T. H.....Laurinburg, N. C.

Jeffreys, Annie F.....Petersburg, Va.

Jones, Estella D.....Chapel Hill, N. C.

McKenzie, Sarah P.....Greensboro, N. C.

Teacher.

Pritchett, Nannie L.....Greensboro, N. C.

Quick, Knox S.....Laurinburg, N. C.

Richardson, M. L.....Wilmington, N. C.

Simmons, Victor W.....Statesville, N. C.

Strong, Andrew J.....Matrimony, N. C.



A. S. M. COLLEGE BASEBALL TEAM, 1915



EXHIBIT AT CENTRAL, CAROLINA FAIR, 1905

Willis, Josie H.....	Wilmington, N. C.
Wilson, Lillie B.....	Hillsboro, N. C.
Witherspoon, Annie F.....	Raleigh, N. C.
Wooten, David	Princeville, N. C.
Wright, Annie C.....	Danville, Va.

CLASS OF 1901.

Gwyn, Cecil B.....	Raleigh, N. C.
Teacher, St. Augustine School.	

*Jones, Georgia	Hampton Institute, Va.
Jackson, N. C.....	Carthage, N. C.
Logan, Erkwood.....	Gale, N. C.
Lipscombe, Hattie B.....	Raleigh, N. C.
Student, Shaw University.	

Mapp, Sadie	Philadelphia, Pa.
Palmer, Dinah	Church Hill, N. C.
Reaves, W. V.....	Greensboro, N. C.
Rankin, A. E.....	Greensboro, N. C.
Reynolds, Mattie	Waynesville, N. C.

N. B.—In order that this list may be kept accurately, graduates are requested to inform the President of any change in address, vocation, etc.

Examination Schedules for the Session, Fall Examination, Week Ending November 30, 1906.

Days:—	Tuesday.	Wednesday.	Thursday.	Friday.
A. M.	I. Arithmetic.	Geograph.	Agriculture.	Shop work.
	II. Breeding.	Arithmetic.	Physiology.	
	III. English.	House Planning.	Algebra.	
	IV. Geometry.	English.	Botany, Mechanism	
P. M.	I. English.	Reading and Writing.	Drawing.	Shop work.
	II. English.	Shop work.	Drawing.	
	III. Physics.	Chem. and Drawing.	But. Making, Drawing.	
	IV. Entomology.	Chemistry.	Drawings.	
WINTER EXAMINATION, WEEK ENDING FEBRUARY 28, 1907.				
A. M.	I. English.	Geography.	Greenhouse.	All Classes Shop Work.
	II. English.	Arithmetic.	Veterinary Science.	
	III. Physics.	Heating & Ventilating.	Chemistry & Drawing.	
	IV. Trigonometry.	Feeds & Drawing.	Chemistry & Shop.	
P. M.	I. Arithmetic.	Chemistry.	Drawing.	Shop Work.
	II. Study Breeds.	Book Keeping.	Drawing.	
	III. English.	Algebra.	Drawing.	
	IV. Entom. & Shop.	English.	Mechanism.	
SPRING EXAMINATION, WEEK ENDING APRIL 26, 1907.				
A. M.	I. English.	Geography.	Greenhouse.	Shop. Market Gardening. Orchard and Shop. Feed and Shop.
	II. English.	Arithmetic.	Veterinary Science.	
	III. Physical Geog.	Geometry.	Veterinary Science.	
	IV. Trigonometry.	Cnem., S. Diag.	Chemistry and Shop.	
P. M.	I. Arithmetic.	Physiology.	Drawing.	Mat. of Construction. Shop. Carving and Shop.
	II. Stock Judging.	Book Keeping.	Drawing.	
	III. Chem. Specifn.	English.	Bas. and Drawing.	
	IV. Civics.	Feeds and M. Shop.	English and Thesis.	

N. B.—There will be no special examination given to the graduating class in Spring Term. All conditions must be removed not later than Winter Term.



VIEW OF BUILDINGS FROM SOUTH, SHOWING NEW DORMITORY

ERRATTA.

Page 9.

JOHN H. BLUFORD, B. S., A. M.

W. F. ROBINSON, B. Agr.

FLORIST AND INSTRUCTOR IN HORTICULTURE.

Page 24.

FIRST YEAR CLASS—SPRING TERM.

A. M.—Arithmetic, 6; English, 6; Geography, 3; Reading and Spelling, 3; Physiology, 3; Material of Construction, 2; Music, 1.

P. M.—(Greenhouse, 2; Shop, 6; Drawing 2); or (Greenhouse, 2; Shop, 4; Drawing, 4).

A. & M. COLLEGE, SCHEDULE.

		A. M.		FAIL TERM.		P. M.	
Days,	8-30	9-10	10-11	11-12	12-1	2-4	7-9:30
Monday	I. Arithmetic. II. English. III. Physics. IV. Entom., M. Shop.	English. Arithmetic. English. (a) Entom., Mech.	Geography. Breeding. Algebra. Geometry.	Agriculture. Physiology. House planning. English.	G. House and S. Work. Shop Work. (a) Chem., (m) S. Work Agr. Chem., Shop.		
Tuesday	I. Arithmetic. II. English. III. Physics. IV. Bot., M. Shop.	English. Arithmetic. English. Bot., Mechm.	Reading and Writing. Algebra. Geometry.	Music. Physiology. House Planning. English.	Greenhouse, Drawing, Drawing. Chem. and Shop. M. Gardening, Shop.		
Wednesday	I. Arithmetic. II. English. III. Physics. IV. Entom., M. Shop.	English. Arithmetic. English. Entom., Mech.	Reading and Writing. Breeding. Algebra. Geometry.	Music. Physiology. House Planning. English.	Greenhouse and Shop. Shop. Chemistry and Shop. Agr. Chem. and Shop.		
Thursday	I. Arithmetic. II. English. III. Physics. IV. Bot., M. Shop.	English. Arithmetic. English. Bot., Mech.	Reading and Writing. Breeding. Algebra. Geometry.	Music. Physiology. House Planning. English.	Greenhouse & Drawing. Drawing. Butter Mfg. & Draw'g. Agr. Chem. and Shop.		
Friday	I. Arithmetic. II. English. III. Physics. IV. M. Shop, Entom.	English. Arithmetic. English. Entom., Mech.	Geography. Breeding. Algebra. Geometry.	Agriculture. Physiology. House Planning. English.	Shop. Chemistry and Shop. Agr., Chem. and Shop.		
Saturday	I. Arithmetic. II. English. III. Physics. IV. Bot., M. Shop.	English. Arithmetic. Eng.-sh. Botany, Mechanism.	Reading and Writing. Breeding. Algebra. Geometry.	Music. Physiology. House Planning. English.	Excused. 2-6		
Chapel Exercises.							
Study Hours Every Day. Friday Night Literary.							

Drill every morning 8-8:30. Saturday mornings, preparation of rooms 7:30-9.

Study Hours Every Day.
Friday Night Literary.

		A. M.		WINTER TERM.		P. M.	
Days.	8-39	9-10	10-11	11-12	12-1	2-4	7-9:30
Monday	I. Arithmetic. II. English. III. Physics. IV. Chem., Mechanism.	English. Arithmetic. English. Chemistry, Mechanism	Geograph. Study of Breeds. Algebra. Trigonometry.	Agriculture & Chem. Veterinary Science. Drawing. English.	Greenhouse; Shop. Shop Work. Chemistry; Shop. Entomology; Shop.		
Tuesday	I. Arithmetic. II. English. III. Physics. IV. Trigonometry.	English. Arithmetic. English. Chem.; Shop Work.	Reading and Writing. Study of Breeds. Algebra. Botany; Shop.	Music. Book Keeping. Heating & Ventilating. English.	G. House; Drawing. Dairy; Drawing. Feeds; Drawing.		
Wednesday	I. Arithmetic. II. English. III. Physics. IV. Chem., Mechanism.	English. Arithmetic. English. Chemistry, Mechanism	Geography. Breeds. Algebra. Trigonometry.	Agriculture & Chem. Veterinary Science. Drawing. English.	Greenhouse; Shop. Shop Work. Chemistry; Shop. Entomology; Shop.		
Thursday	I. Arithmetic. II. English. III. Physics. IV. Trigonometry.	English. Arithmetic. English. Chemistry, Mechanism	Reading and Writing. Breeds. Algebra. Trigonometry.	Music. Book Keeping. Heating & Ventilating. English.	Greenhouse; Shop. Dairy; Drawing. Feeds; Drawing.		
Friday	I. Arithmetic. II. English. III. Physics. IV. Chem. & Mech.	English. Arithmetic. English. Chemistry, Mechanism	Geography. Breeds. Algebra. Trigonometry.	Agriculture & Chem. Veterinary Science. Drawing. English.	Greenhouse; Shop. Shop Work. Chemistry; Shop. Entomology; Shop.		
Saturday	I. Arithmetic. II. English. III. Physics. IV. Trigonometry.	English. Arithmetic. English. Trigonometry.	Reading and Writing. Breeds. Algebra. Botany & Mechanism.	Music. Veterinary Science. Heating & Ventilating. English.	Excused. 2-6		
Chapel Exercises.							
Study Hours: Friday Night, Literary.							

Drill every morning 8-8:30. Saturday mornings, preparation of rooms 7:30-9.

Study Hours: Friday Night, Literary.

A. & M. COLLEGE, SCHEDULE.									
A. M.		SPRING TERM.				P. M.			
Days.	8-30	9-10	10-11	11-12	12-1	2-4	7-9:30		
Monday	II. Arithmetic. III. English. III. Bact.; W. Carving IV. Agr., Chem., M. S. A. Chem.; M. Shop.	English. Algebra. English. English.	Geography. Stock Judging. Geometry. Civics.	Physiology. Market Gardening. Phy. Geog.; Spect. English.	Shop; Greenhouse. Shop. Chemistry; Shop. Pd. Practice; S. Work.				
Tuesday	I. Arithmetic. II. English. III. Bact., Contract. IV. Trigonometry.	English. Algebra. English. Trigonometry.	Reading and Spelling. Veterinary Science. Geometry. Feeds; Strain Diagram	Mat. of Construction Book Keeping. Phy. Geog. Specif. Thesis.	Drawing; Greenhouse. Drawing. Orchd Pac., Drawing Fld. Prac.; Drawing.				
Wednesday	I. Arithmetic. II. English. III. Vet. Sci., W. Carv. IV. Agricultural Chemistry; Machine Shop.	English. Algebra. English. English.	Geography. Stock Judging. Geometry. Civics.	Physiology. Market Gardening. Phy. Geo. Specifica'on English.	Shop and Greenhouse. Shop. Chemistry; Shop. Chem. (Q. A.), S. Work				
Thursday	I. Arithmetic. II. English. III. Bact.; Contracts. IV. Trigonometry.	English. Algebra. English. Trigonometry.	Spelling. Veterinary Science. Geometry. Feeds; Strain Diagram	Mat. of Construction. Book Keeping. Phy. Geo. Plumbing. Thesis.	Drawing & Greenhouse. Drawing. Orchd. Pac., Drawing Pd. Prac.; S. Work.				
Friday	I. Arithmetic. II. English. III. Vet. Sci.; W. Carv. IV. Agricultural Chemistry; Machine Shop.	English. Algebra. English. English.	Geography. Stock Judging. Geometry. Civics.	Physiology. Market Gardening. Phy. Geo. Specif. Thesis.	Shop and Greenhouse. Shop. Chemistry; Shop. Chem. (Q. A.), S. Work				
Saturday	I. Arithmetic. II. English. III. Physics. IV. Trigonometry.	English. Algebra. English. Trigonometry.	Spelling. Veterinary Science. Geometry. Civics.	Mat. of Construction. Book Keeping. Phy. Geo. Plumbing. Thesis.	Drawing & Greenhouse. Drawing. Orchd. Pac., Drawing Pd. Prac.; S. Work.				

Study Hours: Friday Night, Literary.	
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Study Hours: Friday Night, Literary.

COLLEGE SONG

BY MRS. JAS. B. DUDLEY

Dear A. & M., dear A. & M.,
A monument indeed
Around thy base with grateful hearts
Behold thy students kneel.
We bless the power that gave thee birth
To help us in our need;
We'll ever strive while here on earth
All loyalty to yield!

Chorus:

With joy, with joy, dear A. & M.,
Thy students turn from thee
To spread thy trophies year by year
From Dara to Cherokee.

Dear A. & M., dear A. & M.,
The signet thou shalt be,
Set by our great old commonwealth,
Proud boaster of the free,
She'd have the record of her worth
On granite not inscribed;
Nay; let the children of her birth
Proclaim it by their lives.

Dear A. & M., dear A. & M.,
Henceforth our aim shall be,
By precepts wise, by deeds more sure,
To bless the State through thee.
The arts of industry to wield
Against an idle foe;
A harvest rich, from ripened fields
From what thy students sow.

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□

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BULLETIN

OF

A. & M. COLLEGE

PUBLISHED BY

The North Carolina
Agricultural & Mechanical College
For the Colored Race



GREENSBORO, - NORTH CAROLINA

Issued Quarterly

Vol. 2

JUNE 1910

No. 1

CALENDAR, 1910-1911

Entered as Second-Class Matter, July 2nd, 1909, at the Postoffice at
Greensboro, N. C., under Act of July 16th, 1894.

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1914/1

ANNOUNCEMENTS

1. **MEDICAL FEE.**—Every student lodger must pay one dollar medical fee. There will be no further charges for medical attention; but this fee does not include expenses for medicine.
 2. **VACCINATION.**—Each student will be required to be vaccinated on entrance unless he can satisfy the College physician that vaccination is unnecessary.
 3. **LODGING DEPOSITS.**—On account of limited accommodations, students can secure room at once by paying one dollar for September lodging. In case of sickness or inability to attend, the one dollar will be refunded, provided application for its return is made before September 1, 1910.
 4. **FREE TUITION.**—Each Senator and Representative can recommend county students for free tuition. Upon the endorsement of a county Representative or Senator, we will give a student his tuition free for one session. Free tuition does not mean free board and lodging. These two items costs \$6.00 per month.
 5. **SPECIAL EXAMINATIONS.**—Entrance examination and examinations for the removal of conditions are held September 5, 6, 7. All students with conditions should avail themselves of the opportunity, as special examinations are *not held* during the session and no conditions will be moved except during the examination weeks.
- Each student must pay on entering all entrance fees and expenses for his first month.

CALENDAR FROM JUNE 1, 1910, TO MAY 31, 1911.

1909.

JUNE							JULY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
				1	2	3	4						1	2		1	2	3	4	5	6	
5	6	7	8	9	10	11		3	4	5	6	7	8	9		7	8	9	10	11	12	13
12	13	14	15	16	17	18		10	11	12	13	14	15	16		14	15	16	17	18	19	20
19	20	21	22	23	24	25		17	18	19	20	21	22	23		21	22	23	24	25	26	27
26	27	28	29	30				24	25	26	27	28	29	30		28	29	30	31			
								31														
SEPTEMBER							OCTOBER							NOVEMBER								
					1	2	3						1									
4	5	6	7	8	9	10		2	3	4	5	6	7	8		6	7	8	9	10	11	12
11	12	13	14	15	16	17		9	10	11	12	13	14	15		13	14	15	16	17	18	19
18	19	20	21	22	23	24		16	17	18	19	20	21	22		20	21	22	23	24	25	26
25	26	27	28	29	30			23	24	25	26	27	28	29		27	28	29	30			
								30	31													

1910-1911

DECEMBER							JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3											1	2	3	4
4	5	6	7	8	9	10		1	2	3	4	5	6	7	5	6	7	8	9	10
11	12	13	14	15	16	17		8	9	10	11	12	13	14	12	13	14	15	16	17
18	19	20	21	22	23	24		15	16	17	18	19	20	21	19	20	21	22	23	24
25	26	27	28	29	30	31		22	23	24	25	26	27	28	26	27	28			
								29	30	31										
MARCH							APRIL							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3							1							
5	6	7	8	9	10	11		2	3	4	5	6	7	8		1	2	3	4	5
12	13	14	15	16	17	18		9	10	11	12	13	14	15	7	8	9	10	11	12
19	20	21	22	23	24	25		16	17	18	19	20	21	22	14	15	16	17	18	19
26	27	28	29	30	31			23	24	25	26	27	28	29	21	22	23	24	25	26
								30							28	29	30	31		

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Main Building

SIXTEENTH ANNUAL CALENDAR

OF THE

North Carolina

Agricultural and Mechanical College

FOR THE COLORED RACE

GREENSBORO, NORTH CAROLINA

1910-1911

THE RECORD JOB OFFICE
Greensboro, N. C.

CALENDAR 1910—1911.

September 1-3—Entrance Examinations and Examinations for removal of conditions.

September 5—Registration Day.

September 6—Fall Term begins.

November 30—Fall Term ends. Term exercises Literary Societies.

December 1—Winter Term begins.

February 27—Winter Term ends. Literary exercises Winter Term.

March 1—Spring Term begins.

May 21—Baccalaureate Sermon.

May 25—Commencement.

June 5—Summer School.

HOLIDAYS.

Thanksgiving Day.

Christmas Vacation—Dec. 23-Jan. 3rd inc.

Washington's Birthday, February 22.

Winter Term Holiday, February 28.

Easter Monday.

SPECIAL DAYS.

Arbor Day (day after Thanksgiving)—Special programme by Department of Agriculture and Chemistry.

Douglas' Birthday, and Lincoln's Birthday, February 12. Special program by English Department.

Morrill's Birthday, April 14—Agricultural and Mechanical Societies have special programme.

BOARD OF TRUSTEES

First Congressional District—W. A. Darden, Pitt county.

Second Congressional District—

Third Congressional District—W. E. Brooks, Chatham county.

Fifth Congressional District—J. I. Foust, Guilford county.

Sixth Congressional District—C. Miller Hughes, Cumberland county.

Seventh Congressional District—C. C. Cranford, Randolph county.

Eighth Congressional District—W. L. Kluttz, Rowan county.

Ninth Congressional District—W. A. Enloe, Jackson county.

MEMBERS AT LARGE.

M. W. Bell, Cherokee County.

J. B. Minor, Guilford County.

R. W. Morphis, Rockingham County.

M. C. S. Noble, Orange County.

C. G. Rose, Cumberland County.

C. M. Vanstory, Guilford County.

OFFICERS OF TRUSTEE BOARD.

M. C. S. Noble, Chairman, Chapel Hill, N. C.

A. T. Whitsett, Secretary, Greensboro, N. C.

FACULTY AND OFFICERS.

JAMES B. DUDLEY, A. M., LL.D., President, and Head of English Department.

JUNIUS ROOKS, Steward, 1895.

WILLIAM YATES, Instructor in Tinsmithing, 1900.

J. H. BLUFORD, B. S., A. M., Head of the Agricultural Department and Instructor in Agriculture and Chemistry, 1902.

J. ELMER DELLINGER, M. D., College Physician, 1903.

WILLIAM M. NELSON, A. B., Instructor in Drawing and Carpentry, 1903.

W. F. ROBINSON, B. Agr., Florist and Instructor in Horticulture and Botany, 1904.

W. F. DEBNAM, A. B., Superintendent of the Farm and Instructor in Practical Agronomy, 1907.

J. D. CHAVIS, A. M., D. D., First Professor in the English Department, in charge of Post-Graduate Courses, 1907.

MARTIN GOINS, Secretary and Librarian, 1907.

W. H. GREEN, Instructor in Wood Turning and Upholstery, 1908.

A. T. WHITSETT, Treasurer, 1909.

GEORGE R. TOMPKINS, Head of the Mechanical Department and Instructor in Mechanical and Electrical Engineering, 1909.

J. L. FOGGIE, Instructor in Forging and Wheel-wrighting, 1909.

A. D. WATKINS, Instructor in Bricklaying and Plastering, 1909.

B. W. BARNES, B. Agr., Bursar and in charge of Night School, 1909.

S. B. JONES, A. B., M. D., Instructor in Mathematics, 1909.

M. S. SANDERS, Instructor in Broom-making, 1909.

CHAS. E. STEWART, B. D., Instructor in Music and in charge of the Preparatory class, 1909.

E. F. COLSON, B. Agr., Instructor in Dairy and Animal Husbandry, 1910.

The North Carolina Agricultural and Mechanical College For the Colored Race

This College was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, who are elected by the General Assembly, or appointed by the Governor, for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the president, instructors, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and support of Colleges for the benefit of agriculture and mechanic arts to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The College also receives an appropriation from the State

for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

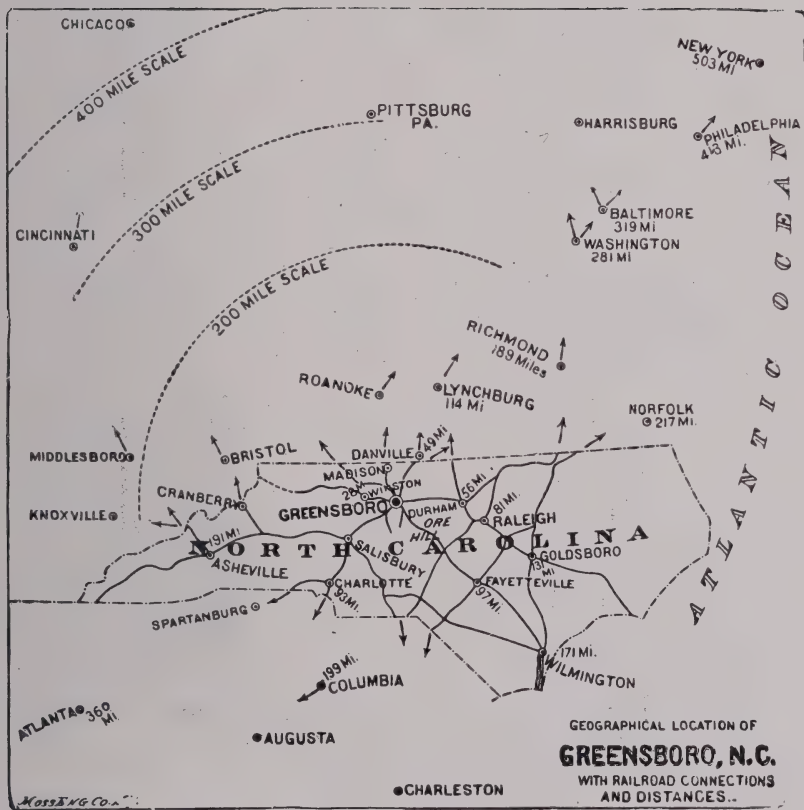
The citizens of Greensboro donated fourteen acres of land and \$11,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year.

Every negro who will observe the splendid record of success and of usefulness which the graduates almost without exception are making must naturally feel grateful to the "Old North State" for the excellent work that this Commonwealth is doing for the uplift of its negro citizens. Every intelligent citizen, black or white, who will note the substantial interest and splendid support that this institution is receiving from every State official and from the representatives of the people in every Legislature, must admire the wise and liberal treatment North Carolina is giving for the maintenance of helpful institutions for her negro citizens, and ever appreciate the excellent results that are being accomplished. It is certain no negro can study the important work of this institution and its influence for the advancement of all people without feeling a stronger sense of obligation to his State that he should strive to be a better, truer and more patriotic citizen of the great State of North Carolina.

ADMISSION.

The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 16 years of age; must understand fairly well the forms and rules of the English language, must know addition, subtraction, multipli-



cation and division of whole numbers, and have a knowledge of geography and history.

Students who have completed the eighth grade in the grammar schools will be admitted without examination.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

TUITION.

Tuition of one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

EXPENSES.

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise nor guarantee can be made in advance to furnish such work.

The charges made by the college for board, lodging and tuition must be settled in advance the first day of each month. The college does not hold students on credit. No monthly payment will be returned and no student will be credited with fractional parts of monthly payments, except students entering may make their initial payment to the first of the next month."

Positively no student will be allowed to enter any department of the College without paying in Cash the first month's expenses, as stated below.

No student should expect to enter any department of the

College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Tuition, per month	\$1.00
Lodging—use of room, bedding, etc., per month.....	1.00
Board, per month	5.00

TERM PAYMENTS.

Chemical Laboratory Fee	\$1.00
Physical Laboratory Fee	50
Work Shop (Mechanical Department).....	1.00

YEARLY PAYMENTS.

Incidental Deposit	\$2.00
Dining Hall Fee	1.00
Medical Fee	1.00

These charges are payable strictly in advance.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, work-shops and dining-hall when properly countersigned.

In addition to the above expenses the cost of text-books must be considered. This will amount to about \$12.50 per year.

Free tuition or county students will pay \$1.00 per month less than the above.

Board, lodging, medical fee, tuition, and incidental deposit must be paid before the rooms are assigned and tickets of admission to class-rooms, work-shops and dining-hall are issued.

In addition to the above charges each student will be required to give at least three hours work per week.

SUPPLIES.

Each student must bring a hairbrush and comb, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit \$2.00 to cover any charges which may be made against him for damages done.

From the standpoint of neatness and economy in dress each student should supply himself with a regular uniform. This recommendation is compulsory for members of the Senior class.

No student organization will be allowed to leave the College in a body without being in uniform.

RULES FOR GOVERNING CLASSIFICATION.

1. Regular students must take a minimum of fifteen hours of credit work per week at least three of which shall be industrial or manual training work.

2. Examinations for the removal of conditions will be held at no other time than the regular term examination periods.

3. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably. Students will not be promoted from one class to a higher class who have not passed a maximum of forty-five hours in the class from which he seeks promotion.

4. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

5. Any student failing to secure 50 per cent. of the total marks obtainable during any term, will be required to take a lower class or sever his connection with the College and be allowed to return the following session.

GRADUATION.

It is the aim of this institution to send forth men who are fit representatives. To this end, the faculty reserves the right

to refuse to admit any student to the Senior class or to graduate any one who, though qualified by class record, may otherwise be unfit.

Students graduating from the Trade School Courses are entitled to Certificates.

Students are entitled to a Diploma of the College upon the completion of the prescribed courses.

Candidates for graduation from the College, in addition to the work outlined in the catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible persons.

DEGREES.

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Science in Agriculture.

Students graduating from Mechanical Course shall be entitled to the degree of Bachelor of Science in Mechanical Engineering.

Members of the Senior class must deposit the fee for Diploma thirty days before commencement day.

GENERAL INFORMATION.

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 to 7½ cents per hour, for which they can get credit each month at the time of their advanced payment.

Students receiving aid by labor which they may secure at the College are requested to observe: (a) That credit on school expenses and not money, will be allowed for student labor, except by action of the faculty and approval of the President; (b) that credit cannot be transferred from one student to another.

The several industries operated by the school affords oppor-

tunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations, to be found on another page of this catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

There are two literary societies, the Dunbar and Douglass, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. The faculty, by presence and advice, will seek to encourage these societies. Membership in one or the other of these societies will be compulsory. There are two technical societies, in which special topics in connection with agriculture, mechanics and chemistry are considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guard-

ian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done, with safety; as the College cannot, nor does it desire to rid itself wholly of the responsibility out of school hours of the conduct of students who do not room and board in the College.

Members of the Freshman, Sophomore, Junior and Senior classes who lodge at the College will not be allowed to work in the city except in the employment of the College.

The *industrial* part of each course of instruction applies to all students, *and none will be excused therefrom.*

INDUSTRIAL MUSEUM.

An Industrial Museum has been started and already valuable collections of work done by students are to be seen. We have collections representing the work in carpentry, blacksmithing, and the various trades; also specimens from the Agricultural, English and Dairy Departments. Such articles for exhibit are collected once every month.

RULES AND REGULATIONS.

1. The signal for rising will be given at 5.45 a. m. Dressing and arranging rooms, 5.45 to 6 a. m. Prayer, 6.15. Breakfast, 7 to 7.30 a. m. Chapel, 8.30 to 9 a. m. Morning session, 9 to 1 p. m. Dinner from 1.10 to 2 p. m. Afternoon session, 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper, 6 to 6.30 p. m. Evening prayer, 6.40 to 6.55. Study, 7 to 9.30. Night school session, 7 to 9.30. Retiring signal, 9.45 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or intemperance, and any student known to have vicious habits or to in-

dulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Untruthfulness or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all special exercises, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect college duties, or who absent themselves from College grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their sons or wards to attend.

7. Any student shooting or having on his person, in his room, or on the College premises, rifles, spring guns, fire arms or deadly weapons of any kind whatsoever will be dismissed.

8. The use of tobacco, spirits, malt or vinous liquors in any form by the students is prohibited. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining room during meals. Students guilty of ill-mannered conduct in act



North Dormitory

or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory buildings.

12. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands by any member of the Faculty shall be held guilty of contempt and punished accordingly.

13. No students will be retained after he has received thirty-four demerits in any one term of a session.

14. Every new student must be vaccinated before entrance, or present a doctor's certificate showing that he has been successfully vaccinated within two years.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishonesty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

19. Students are not permitted to walk on grass plots and will be demerited for this offence.

By order of

THE BOARD OF TRUSTEES.

OUTLINE OF COURSE OF STUDY.

FRESHMAN CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	
Algebra			5
Biology (Plant)	3		
Biology (Animal)		3	
Biology (Human)			3
General History	2	2	2
Physiology	3	3	
Music	2	2	2
Elementary Chemistry			3
Shop, Greenhouse or Dairy'g	3	3	3
Drawing	2	2	2

NOTE.—Eighteen hours must be passed per term and all entrance conditions removed in order to be promoted to the next higher class. Recitation and lecture periods one hour; the laboratory, shop, and other periods, two hours. Sophomores, Juniors and Seniors will take music one hour per week during the industrial periods.

SOPHOMORE CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Algebra	5	5	
Geometry			5
English	5	5	5
Physics	5	5	5
Chemistry	3	3	3
Bookkeeping	2	2	
Materials of Construction...			2
Market Gardening			3
Machine Tools			
Mechanics	3	3	3
Steam Boilers and Firing...	3	3	3
Geometrical Drawing	2	2	2
Shop	3	3	3

JUNIOR CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Geometry (Plane)	5	5	
Geometry (Solid)			5
English ..	5	5	5
Physics (for Class of 1912) .	3	3	3
Bacteriology (A)	2	2	
Steam Engines (M)	2	2	
Gas Engines (M)			2
Geology (A)			2
Animal Breeding (A)	3		
Study of the Breeds (A)....		3	
Veterinary Science (A)			3
Horticulture (A)	2	2	2
Mechanism (M)	3	3	
Heating and Ventilating (M)			3
Electrical Engineering (M) .	2	2	2
Chemistry (A)	3	3	3
Dairying (A)	2	2	2
Shop (M)	3	3	3
Drawing (M)	2	2	2

SENIOR CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Solid Geometry	5		
Trigonometry ..		5	
Trigonometry ...			3
Surveying ..			2
English ..	3	3	3
Political Economy	2	2	2
Agricultural Group:			
Agricultural Physics	3	3	
Thesis			5
Agronomy ..	2	2	
Entomology ..	3	3	
Farm Mechanics	2	2	

Botany and Landscape Gard'g			3
Pomology		2	
Agricultural Chemistry	2	2	2
Mechanical Group:			
Strength of Materials	2	2	
Hydraulics	2		
Hydraulic Motors		2	2
Engine Handling	3		
Drawing	2	2	2
Power Plant Design		2	
Estimates	2	2	
Specifications			2
Shop	3	3	3
Houseplanning		2	
Thesis		2	5

PREPARATORY CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	5
Carolina History	3		
U. S. History		3	3
Music	2	2	2
Geography	3	3	3
Writing	2	2	2
Drawing	2	2	2
Shop, Dairy or Greenhouse..	3	3	3

DEPARTMENT OF AGRICULTURE AND CHEMISTRY

JAS. B. DUDLEY, President.

J. H. BLUFORD, Head of Department and Instructor in Agriculture and Chemistry.

W. F. DEBNAM, Superintendent of Farm and Instructor in Practical Agronomy.

W. F. ROBINSON, Florist, and Instructor in Horticulture and Botany.

E. F. COLSON, Superintendent of Dairy, and Instructor in Dairy and Animal Husbandry.

AGRICULTURAL COURSES.

1. A four-year course in Agriculture.
2. A two-year course in Agriculture.
3. A six weeks' course in Agriculture.

There are three courses in Agriculture—a four-year graded course leading to the degree of Bachelor of Agricultural Science, a two-year course leading to a certificate, and a six weeks' course for farmers and others who can only spend a limited amount of time away from their business. The four-year course is designed to give the student a well-rounded education combined with technical and practical instruction. The course is divided so as to give about one-third of the student's time to technical instruction, one-third to scientific and the other third to English and Mathematics. As all agricultural instruction is dependent upon a thorough knowledge of the fundamental sciences the course is essentially scientific rather than literary. The two-year course is designed especially for the need of those students who have little time to spend in school and wish to get only such instruction as bears directly on their chosen vocation.

Special attention is given to dairying, horticulture, soils, fertilizers, market gardening and stock-raising. The college

has frequent calls for young men to do practical work in these subjects.

The six weeks' course is devoted to a course of lectures and practical demonstrations on dairying, soils, fertilizers and stock-raising. These courses for the most part will be given by experts from the State Department of Agriculture.

METHODS OF INSTRUCTION.

Instruction is given by laboratory work, text-books, lectures and reference reading. The scientific equipment is excellent—probably the best of any negro school in the country. All class room work is supplemented by practical work, either in the field, the garden, the greenhouse, the barn, the dairy, or the chemical or physical laboratory.

EQUIPMENT.

The college has twenty-five acres of land in the immediate campus which is used for horticulture and market garden purposes. In addition to this it has a farm of 103 acres of land most of which is under cultivation. There is a modern two-story barn which is used for dairy cattle, a piggery, and a small poultry plant.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn harvester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for butter making, such as United States Cream Separator, De Laval Separator, seven Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, Aerator, etc., thus enabling us to offer the very best course in butter making. We have recently added apparatus and utensils for cheese making for home consumption.



Dairy and Barn

A ninety-ton silo has also been erected for which silage is raised every year. A St. Alban's Shredder is used for cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

The farm is stocked with a good herd of milch cows.

Different crops such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wutzel, potatoes, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on, on the farm, illustrating the effect of different methods of cultivation and fertilization of several crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The green-house is maintained to aid the student in the study of Botany and care of flowers. Instruction is also given in the management of a green-house on a commercial scale.

Market gardening is practised on a small scale for the purpose of giving the student practice in the management of early truck lands.

DESCRIPTION OF COURSES.

A—INDUSTRIAL—PRACTICAL HORTICULTURE.

I.—GREENHOUSE MANAGEMENT. Three hours.

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms. For Freshman. Fall term. Mr. Robinson.

II.—PROPAGATION OF PLANTS. Three hours. Required Course I.

Practice is given in making cuttings, in pottings, rooting,

grafting, budding, etc. The student is also taught how to prepare various fungicides and insecticides, how and when to apply them. For Freshmen. Winter term. Mr. Robinson.

III.—MARKET GARDENING. Three hours. Required Cours II. Industrial. For Freshmen.

Practice is given in transplanting plants from the greenhouse or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale. Spring term. Mr. Robinson.

B—AGRICULTURE—BIOLOGY AND GEOLOGY.

I.—ELEMENTARY BOTANY.

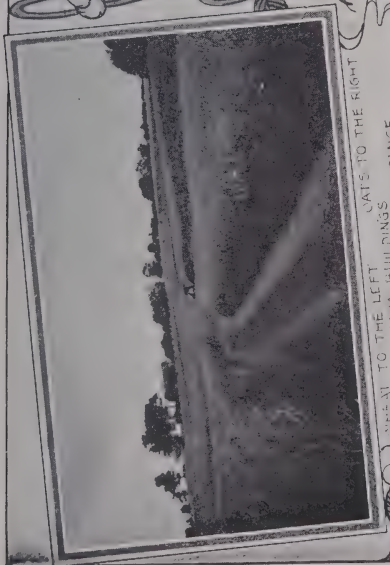
Lectures, recitations and laboratory work. Special attention is given to plant morphology, the principles of nutrition, reproduction, growth, sex and adaptation to environment. The importance of the fungi and seed plants is emphasized. The principles of plant breeding, crossing, fallination, budding and grafting are taught. Required of Freshmen. Fall term. Three hours. Text—Bailey and Coleman. Mr. Bluford.

II.—ELEMENTARY BOTANY.

The various types and principles of animal life; structure and classification of the vertberates and invertebrates; the common parasites infecting man and the domestic animals. Freshmen. Winter term. Three hours. Text—Bailey and Coleman Elementary Biology. Mr. Bluford.

III.—ELEMENTARY GEOLOGY.

Structural geology; important minerals and elements of the earth's crust; the igneous or eruptive rocks; sedimentary and metamorphic rocks; dynamic geology—wind and river erosion; underground water and lake deposits; glaciers, mountains, volcanoes; eathquakes and geysers; stratigraphic geology. The uses of fossils; life during the archean and paleozioec



WHEAT TO THE LEFT
GATE TO THE RIGHT
FARM BUILDINGS
IN THE DISTANCE



HARVESTING WHEAT
LOOKING NORTH



GARTONS TARTER KING
SPRING OATS



WHEAT HARVEST
LOOKING SOUTH

College Farm Scenes

times. The glacial period. For Juniors. Spring term. Three hours. Mr. Bluford.

AGRONOMY.

IV.—FARM MANAGEMENT.

Lectures and recitations upon the selection, location, planning and the equipment of farms; farm building and machinery. Systems of cropping and farm accounts. For Seniors. Fall and Winter terms. Two hours. Text—Card's Farm Management. Mr. Debnam.

V.—ARICULTURAL PHYSICS. Required Courses III. Physics and V. Chemistry and I. Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: Agricultural Physics.—*King*. For Seniors. Fall and Winter terms. Three hours. Mr. Bluford.

VI.—AGRICULTURAL PHYSICS LABORATORY WORK. Courses I, II. and III. required. (Gen. Physics.)

This course will accompany Course IV. with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work. Spring term. Seniors. Two hours. Mr. Bluford.

VII.—FARM CROPS.

Lectures upon the history, production, harvesting and marketing of farm crops. Practical exercises in harvesting and storing various staple crops. Preparation of soil and the seeding of fall and winter crops; practical exercises in draining land, fall plowing and the preparation of soil for spring seeding. Practical rotation of crops on one acre plats. For Freshmen and Preps. Three hours throughout year. Mr. Debnam.

VIII.—SPECIAL CROPS.

The seeding and harvesting of special crops, such as corn, tobacco, cotton, the clovers and the grasses. Practical exercises in the rotation of these crops on one acre plats. For Juniors and Seniors. Fall and spring term. Mr. Debnam.

PHYSIOLOGY AND VETERINARY SCIENCE.

I. The structure and function of the bones, muscles and points are carefully studied. The various organs and their functions receive special attention; health laws, ventilation, influence of heredity, preparation and use of domestic remedies; disinfectants and their uses; sanitation and prevention of tuberculosis. For Freshmen. Three hours throughout the year. Text—Bailey and Coleman's Physiology. Mr. Robinson.

II.—VETERINARY SCIENCE. Three hours. Required Course I. Physiology.

The common diseases of farm animals are briefly discussed, together with remedies for same. Some practical work in caring for sick animals is also provided the student. Text—Veterinary Elements.—*Hopkins*. For Juniors. Spring term. Mr. E. F. Colson.

ANIMAL HUSBANDRY AND DAIRYING.

I.—ANIMAL BREEDING.

The student is taught the underlying principles of successful breeding; such subjects as atavism, variation, selection, heredity, line-breeding, cross-breeding and in and in-breeding are discussed. Collateral reading required. Text—Shaw's Animal Breeding. For Juniors. Fall term. Three hours. Mr. Colson.

II.—BREED OF LIVE STOCK.

The origin, history and characteristics of the various breeds of cattle, sheep and swine are taken up. Especial attention is



Stock Judging

given to the various types of dairy cattle and hogs. Whenever possible actual specimens are used to show the characteristics of the various breeds of animals. Excursions are frequently made to near by farms for the purpose of score card work. For Juniors. Winter term. Three hours. Mr. Colson.

III.—MILK AND CREAM TESTING.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in the herd. He also becomes expert in testing cream for acidity according to, at least, two methods.

Lectures and recitation work will be given on the composition, secretion and production of milk. Fall term for Juniors. Three hours. E. F. Colson.

IV.—BUTTER MAKING. Three hours. Required Course III.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc. For Juniors. Winter term. E. F. Colson.

V.—MANAGEMENT OF DAIRY. Three hours. Required Courses III. and IV.

The student is expected to go into the dairy and take charge of the work under the supervision of the instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making. Spring term. For Juniors. E. F. Colson.

C.—HORTICULTURE AND BOTANY.

I.—BOTANY. Five credits. Desired Course I. Horticulture.

Such subjects as how the plant takes up food from the soil and the atmosphere; the effect of sunlight, air and moisture

on plants are noted, diseases of plants and remedies for same are discussed in an elementary way. Given in connection with Course I. Agriculture. Text: Elementary Botany.—*Bailey*. For Seniors. Spring term. W. F. Robinson.

II.—PROPAGATION OF PLANTS. Three hours.

Method of propagating plants by cutting, stalons, suckers, layering seed, etc., are discussed. The principles underlying budding, grafting and pruning are also discussed. Text: Principles of Plant Culture.—*Goff*. Freshmen. Fall term. W. F. Robinson.

III.—SMALL FRUIT CULTURE. Two credits. Required Course II. Horticulture.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the preparation of soil for same. Winter term. Juniors. W. F. Robinson.

IV.—MARKET GARDENING. Three credits. Required Course II. Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, special fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: Vegetable Gardening.—*Bailey*. For Sophomore. Spring term. W. F. Robinson.

V.—POMOLOGY. Two credits. Required Course III. Horticulture.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit are discussed. Text: Fruit Growing.—*Bailey*. For Seniors. Winter term. W. F. Robinson.

VI.—LANDSCAPE GARDENING. Two credits. Required Course V. Horticulture.

Principles of embellishing landscapes, planting and manage-



Campus View, and Classes in Horticulture and Market Gardening

ment of woodlands, management of forests are discussed. Text: Landscape Gardening. — *Maynard*. Spring term. Seniors. W. F. Robinson.

ENTOMOLOGY AND BACTERIOLOGY.

I.—ENTOMOLOGY. Three hours. Required Course VI. Horticulture. Text: Constock's Insect Life.

The subject is taught by means of lectures and the student is required to read upon topics assigned him by the instructor. The most common insects and insectitutes are studied. For Seniors. Fall term. W. F. Robinson.

II.—BACTERIOLOGY. Three hours. Required Courses II. Horticulture and I. Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work. For Juniors. Fall and Winter terms. E. F. Colson.

III.—PLANT DISEASES. Three hours. Required Course I. Horticulture.

Lectures and laboratory work. Common diseases, such as the cereal nests and insects; dises of cotton, tobacco and fruit trees are studied with the aid of the compound microscope. For Seniors. Winter term. W. F. Robinson.

D.—POULTRY HUSBANDRY.

The poultry work at the college has been recently added and is therefore on quite a limited scale, but it is expected that this important industry will take first rank at the college in the next few years. We have already two breeding pens with a number of outdoor home-made brooders and we are now planning to build an incubator cellar and to insall several makes of incubators. We have recently purchased the following varieties of poultry: Rhode Island Reds, Partridge Wyandottes, and White Leghorns.

I.—POULTRY HUSBANDRY.

Construction and location of poultry houses; classification and study of the breeds of domestic poultry; breeding, feeding and management; diseases and remedies; production and marketing of eggs; incubation and breeding; capons and caponizing. For Freshmen, Preparatory and two-year students. Three hours, entire year. Mr. Barnes.

E.—COURSES IN CHEMISTRY AND PHYSICS.

EQUIPMENT.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recomposition of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so complete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and accessories, an Atwood's machine, Port Lummere and Stereoptican for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases. Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Leyden jars for induction and distribution of electricity, compound microscopes, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration



Class in General Chemistry



Soil and Fodder Analysis

with the stereopticon or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball-bearing balance, 50 cc. flasks with ground glass stoppers drawn out to an open capillary tube for specific gravity work; brass tubes $12\frac{1}{2} \times 1\frac{7}{8}$ inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture a set of brass tubes $16 \times 1\frac{7}{8}$ inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five glass tubes, $30 \times 1\frac{7}{8}$ inches inside measurement, for determining the capillary attraction of soils.

A detailed description of the courses offered by this department follows:

I.—GENERAL CHEMISTRY. Three credits. Required Course II. Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture rooms, which bear directly on and pave the way for Agricultural Chemistry. For Freshmen. Spring term. J. H. Bluford.

II.—GENERAL CHEMISTRY. Three credits. Required Course I. Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimeographed Notes. For Sophomores. Fall and Winter terms. J. H. Bluford.

III.—QUALITATIVE ANALYSIS. Three credits. Required Course II. Chemistry.

Laboratory work. During this term the student becomes familiar with testing and especially the elements which enter

into the composition of plant and animal life. For Sophomores. Spring term. J. H. Bluford.

IV.—QUALITATIVE ANALYSIS. Two credits. Required Course III. Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Notes. Juniors. Fall term. J. H. Bluford.

V.—AGRICULTURAL CHEMISTRY. Two credits. Required Course IV. Chemistry.

Lectures on the chemical composition of soils, plants and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed. For Juniors. Winter and Spring term. J. H. Bluford.

VI.—QUANTITATIVE ANALYSIS. Five credits. Required Course IV. Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of various agricultural products. For Seniors. Fall term. J. H. Bluford.

VII.—ANIMAL TOXICOLOGY. Two credits. Required Courses I., II., III. and IV. Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning; the pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc. For Seniors. Winter term. J. H. Bluford.

VII.—FEEDING. Five hours. Required Courses III. Agriculture and V. and VI. Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, mar-

ket and food value of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding rations for the various farm animals are carefully considered. Collateral reading required. Text: *Feeding of Animals*.—*Jordan*. For Seniors. Spring term.

I.—PHYSICS.

The work of the first term consists of five lectures and recitations per week, the subjects covered being Mechanics, Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work. For Juniors. J. H. Bluford.

II.—HEAT, MAGNETISM AND ELECTRICITY. Three hours. Course I. Physics desired. Course IV. Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring and hanging electric bells. Special attention is given to the various kinds of galvanic cells, their uses and relative values. The course is made as practical as possible, so that a student on leaving the college can take up the work of electrician.

III.—SOUND AND LIGHT. Three hours. Course II. desired, V. Mathematics.

This is a continuation of Courses I. and II. and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

IV.—PHYSICAL LABORATORY WORK. Three hours. Courses I., II. and III. required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, Heat, and Electrical Measurements.

DEPARTMENT OF MECHANICS.

Jas. B. Dudley, President.
Geo. R. Tompkins, Director.
W. N. Nelson, Assistant Director.
W. H. Green, Instructor in Wood Turning.
Wm. Yates, Instructor in Tinsmithing.
W. L. Foggie, Instructor in Blacksmithing.
A. D. Watkins, Instructor in Masonry.
M. S. Sanders, Instructor in Broom Making.

From the beginning of the first year the students' time is spent in the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories of the vicinity and the practical application of lectures pointed out.

The first two years in this department may be strictly a trade school. The first and second year students may, therefore, select the special line they wish to pursue and will be required to continue in that special work during the two years. After that time, those wishing to graduate from the institution will be given an opportunity for instruction in the other shops and will perfect themselves in mathematics, science and drawing.

Students who have not decided upon a trade, but who expect to take the full course, will pass from one shop to another spending a term in each for the first two years and the remaining two years will be spent in such special work as they may select.

EQUIPMENT.

Building—Two-story brick structure, with basement. On first floor are: Joinery, wood-turning shop, tin shop, machine shop, and model room; in basement are: Blacksmith shop, brick-masonry shop, wood-working shop and engine room, etc.

Buildings—The main building is a two-story brick structure with basement. On the first floor are located the Carpenter,



Mechanical Building

Tin and Machine Shops. The model room is also on this floor. In the basement are the Woodturning and Bricklaying Shops, also the Power and Heating Plant. The second floor contains the recitation, reading and drawing rooms.

The Blacksmith Shop is located in a one-story brick building at the rear of the main building. This is an up-to-date shop with the most modern equipment. An electric motor furnishes the necessary power.

The Reading Room is provided with Books of Reference, and Technical Journals. Equipment in Drawing consists of tables, drawing board and T squares. Students will provide themselves with instruments. A set of drawing tools may be rented for 25c. per term, payable in advance.

A dynamo has been installed and is used for experimental purposes and for lighting the shops. A Central Heating Plant has recently been put in the Mechanical Building. This furnishes opportunity to study the operations of the most improved steam heating system. Instruction in the following trades has been provided:

Architecture, Blacksmithing and General Repairing, Tin-smithing, Machinist, Wood-turning, Bricklaying and Plastering.

SUBJECTS OF INSTRUCTION.

I.—FREEHAND DRAWING. J. L. Foggie, Instr.

The course in Freehand Drawing is thoroughly practical and aims to cultivate the sense of proportion, to teach the student to read drawings of the shops and to give the student facility in sketching. The drawing is largely from blocks, and simple objects in line, light and shade. Throughout the Preparatory year, two-hour periods twice per week. J. L. Foggie.

II.—MECHANICAL DRAWING. W. H. Green, Instr.

Fall Term—During this term instruction is given in lettering.

Winter Term—In this term the student draws from plates furnished by the teacher and receives instruction in the use of the instruments, the use of ink begins with this term.

Spring Term—In this term instruction is given in Geometrical Construction, and the principles of Projection.

Four hours per week during Freshman year. Text book: Mouckton's Descriptive Geometry.

III.—MECHANICAL DRAWING.

Fall Term—During this term instruction is given in practical descriptive Geometry and projectional drawing.

Winter Term—In this term the student is instructed in shading, tracing and lettering drawings.

Spring Term—During this term the student is taught to make copies of different drawings, furnished by the teacher and to dimension his work.

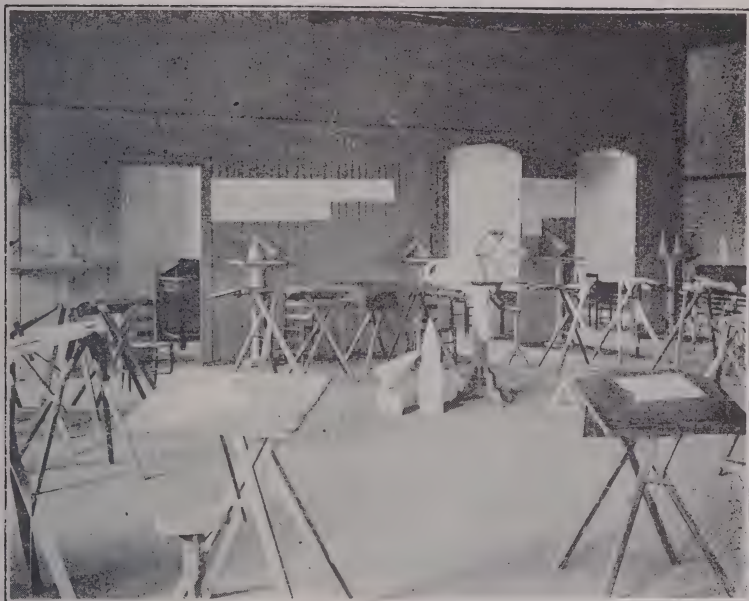
Four hours per week during Sophomore year. Text book: Mouckton's Descriptive Geometry.

IV.—MACHINE DRAWING. W. H. Green, Instr.

The student prepares for machine design by familiarizing himself with the proportions and the arrangement of various machines and their parts. The student begins with the work of dimensioning of elementary machine parts from sketches in magazines, text books and of machines of the shops. This leads gradually to the making of working drawings of machines. Through the Fall and Winter terms, two-hour periods twice per week for the Engineering and Trade courses and one two-hour period for the Engineering course during the Spring term of the Junior year.

V.—MACHINE DRAWING AND DESIGN. G. R. Tompkins, Instr.

At first the student is taught the design of tools and machines by having him consult freely the trade catalogues, and the working drawings of manufacturing concerns. One two-hour period throughout the Senior year. In addition to the machine drawing the students are given a brief outline of the various principles of mechanics. The necessary theory for proportioning screws, bolts, keys, cutters, shafting, couplings, hangers, belts and rope drives, friction and tooth gearing and engine parts are given.



Free Hand Drawing



Specimens of Wood Work

VI.—TOOLS AND MACHINES.

Lectures are given to the student upon the care of tools and the operation of the principal machines used in various shops. Two one-hour lectures during the first term of the Sophomore year.

VII.—MATERIALS.

The student is given the principal materials that are used in building construction and in machine construction, their uses, strength and general characteristics are discussed. The course is given in two one-hour periods during the second and third terms. Sophomore year. Green.

VIII.—STRENGTH OF MATERIALS.

A review of the principles of mechanics applicable to the strength of materials at rupture, the methods of manufacture, the methods of testing. The mechanical theory of the subject is mainly discussed. Two one-hour periods during first term of Senior year.

IX.—HYDRAULICS.

Hydrostatics and the flow of water over weirs, and through orifices, pipes, and open channels. Two one-hour periods during first term of Senior year.

X.—HYDRAULIC MOTORS.

Second and third terms of Senior year. Two hours per week. This course is designed to make the student familiar with the several types of water wheels which are in common use today. The mechanical theory of the turbine and Pelton wheels is developed in detail. Course IX. required.

XI.—SURVEYING.

The work of the class room covers the description of the use of the chain or tape in measuring line areas, the use of the compass, and the use and adjustment of the engineer's transit and wye level. The class is divided into field parties and practice is given in distances, land surveying with the tape alone and also with the compass and transit. The student is required to make a topographical drawing of some plot from notes ob-

tained with the surveying instruments. One two-hour period during third term of the Senior year.

XII.—STEAM BOILERS.

A descriptive study of the various types and makes of steam generators in common use and the adaptability of each type to special localities; combustion of fuels, boiler settings, boiler accessories, legal requirements. The study covers the entire Sophomore year with three one-hour periods.

XIII.—STEAM ENGINES.

The following subjects are treated: Types—simple, compound and triple expansion, automatic, rotary and turbines; care and management; indicators, indicated and brake horse power. Steam pumps are also considered in connection with steam engines. Two one-hour periods first and second terms of the Junior year.

XIV.—MECHANICS.

This subject will be given throughout the Sophomore year. During the first and second terms the mechanics of solids will be taken up. During the spring term the mechanics of fluids and gases will be studied.

The subject will be presented in such a manner that a knowledge of arithmetic and algebra only will be required in the solution of the problems.

Special attention will be given to the graphical solution of all problems where such solutions can be used to advantage.

This subject is required in all of the courses after the Sophomore year except the drawing and shop courses.

XV.—POWER PLANT DESIGN.

During the second term of the Senior year the student makes a complete design of a power plant, showing position of engines, boiler, pumps, and the most important features. One two-hour period.

XVI.—ELEMENTS OF ELECTRICAL ENGINEERING.

This subject is begun in the Junior year with lectures and includes the practical application of electricity for power and lights. During the second and third term of the Junior year



Blacksmith Shop



Power Wood Shop

the student does laboratory work, which is at first elementary in character, with a view of initiating the student into the methods of connecting circuits, the making of measurements and the use of common apparatus and instruments.

XVII.—HEATING AND VENTILATING.

The course comprises lectures upon the various methods of heating and ventilating buildings. The systems of heating are developed from the fireplace to the most modern systems of the day. In connection with the course the student may take practical work in steam-fitting and tin work adapted to furnaces and stoves. For Juniors, third term.

XVIII.—GAS ENGINES.

Third term of Junior year. Two hours per week. The aim of this course is to give such theoretical knowledge of the working of the two and four cycle gas engine that the student will be able to make ordinary repairs intelligently. There are two gasoline engines in the laboratories of the department that are used for practical demonstrations. The great popularity of the automobile makes it very desirable that every student graduating from a mechanical school should have a knowledge of the gas engine. Course XIV. required.

XIX.—MECHANICS.

Throughout the Sophomore year. The first two terms will be devoted to the mechanics of solids. Special attention being given to the graphical solutions of problems in stress and strain. In the third term the mechanics of fluids will be taken up. The object of this course is to give the student a working knowledge of the fundamental principals upon which all structures and machines are built so that the student may intelligently perform the work required of him during his Junior and Senior years.

XX.—MECHANISM.

First and second terms of the Junior year. Two hours per week. This course aims to give as clearly and concisely as possible the principles of mechanical motion so that they may be applied to any mechanism for determining the motion of its

parts and to show the methods of dealing with problems of machine design.

XXI.—ENGINE HANDLING.

During the first term of the Senior year the students are given practical instruction in the care and operation of the steam engine and its accessories. The student is required to spend two hours per week in the college power plant under the supervision of a practical stationary engineer. Course XIII. is required.

ARCHITECTURE.

XXII.—HISTORY OF ARCHITECTURE.

The evolution of the Art of Building is considered and the artistic achievement—planning, decoration of each of the periods is studied with reference to its structural methods, materials, and conditions. Juniors. Two hours per week.

XXIII.—ELEMENTS OF ARCHITECTURE AND ARCHITECTURAL DRAWING.

The student is given the classical orders to draw out in order to accustom his eye and mind to good architectural proportions. Great stress is laid on getting the student to the stage where he can draw well, be neat and exact in pencil, pen, and wash drawings. Junior year. Four hours per week.

XXIV.—ARCHITECTURAL DRAWING.

The problems of this year are given to teach the student to think and reason correctly. In the Senior year the problems become more extensive. The student is made acquainted with the principles underlying the design of different kinds of buildings and the various requirements for such design. (The work covers the Senior year.)



Class in Carpentry



Home of Mr. E. N. Williams, Fayetteville, N. C., constructed by Mr. Chas. Gill, an Undergraduate of A. & M. College.

XXV.—ESTIMATES.

The student is taught to estimate the cost of the different buildings that he designs and various problems are given him in order to familiarize him with usual methods of making estimates. (Two one-hour periods during the first and second terms of Senior year.)

XXVI.—SPECIFICATIONS.

The student is taught the requirements of a good specification; what should be included and what omitted; the relation of specification to working drawings. Two hour periods second term Senior year.

 SHOP WORK.

I.—CARPENTRY.

The course in carpentry is designed to cover four years. Each student is given instruction in house carpentry, shop carpentry, cabinet making, wood carving, wood turning and practice on wood-working machinery. During the first year the student is given exercises in planing, squaring, gauging, sawing, laying off lines and dimensions. The different joints of carpentry are made. In the second year, the student makes practical applications of the work of first year by making articles of furniture and of buildings.

During the third year practice on wood-working machinery, wood turning and wood carving are studied.

During the fourth year the student takes advanced lathe work, pattern work, cabinet work, veneering and polishing and construction work in carpentry.

UPHOLSTERING AND CABINET WORK—W. H. GREEN, INSTR.

II.—UPHOLSTERY. First Year.

Fall Term—Instruction in chair caneing and how to construct a cane seat chair.

Second Term—1. Mattress-making and materials to use.
2. Spring mattresses and their construction.

Third Term—1. French seats and how to make them. 2. Materials to use.

SECOND YEAR.

Fall Term—Spring seats and their construction.

Winter Term—Elementary instruction in veneering and marquetric cutting.

Spring Term—French and American varnishing and polishing. How to make polishes for furniture and pianos.

THIRD YEAR.

Fall Term—Staining and the composition of stains and the materials to use.

Winter Term—Gilding and the making of gold size for gilder's use.

Spring Term—This term covers the cutting and making of draperies and hangings, such as awnings, window shades, portieres and slip covers, etc.

FOURTH YEAR.

Lectures on period work and antiques and the construction of imitation antiques.

Six hours per week during each year.

III.—WOOD-WORKING COURSE. First Year.

During this year instruction is given in the

Fall—1. Uses of tools, their names and how to keep them in order.

Winter—2. Practice in squaring work in the lathe and simple turning.

Spring—3. Instruction in spindle turning.

SECOND YEAR.

In this year the student gets practical instruction in face-plate turning, such as cups, rosettes and all forms of hollow turning.



Tin Shop

THIRD YEAR.

During this year the student gets practical productive work under conditions similar to those in factories.

FOURTH YEAR.

The student gets practice in band sawing to pattern, pattern work and wood carving and the making of plaster moulds.

Six hours per week during each year. Each student will be required to provide himself with a rule, 1 pair of 6" dividers, 1 pair of "6" calipers.

IV.—BASKETRY.

This is a one year subject divided as follows:

FIRST YEAR.

Fall Term—In this term instruction is given in the construction of the basket frame and in the use of the single and double weaves in basketry.

Second Term, Winter—During this term instruction is given in under and overweaving, pairing and triple twist construction.

Third Term, Spring—In this term the student is instructed in: 1. Making braided baskets and the method of braiding material. 2. Rush basket construction.

V.—FORGING.

The regular course in blacksmithing will consist of all kinds of welds, repairing wagons, buggies, and farm machinery; special stress on horse and the study of the hoof; wheelwright, making spokes, hubs, rims, axles, etc., building wagons and buggies. Divided as follows:

First Year Class—The care of fire, the use of hammer and care of the tools, making staples, hooks, rings, chains, and lessons from blue print from 1 to 12.

Second Year Class—Drawing out tools and tempering, making corner welds, butt welds, tie welds, different heats for

proper iron and steel welds. Lessons from blue print from 12 to 24.

Third Year—Banding, strapping, twisting, upsetting, bolt making, thread cutting, and general tool making. Lessons from blue print 24 to 36.

The machine course will consist of rounding, squaring iron, welding iron and steel forging, and tempering machine tools.

VI.—TINSMITHING.

The student who takes sheet metal work must do considerable work in draughting patterns. The first year is devoted largely to familiarizing the student with the various tools, machines and materials used in the trade, and in cutting and plain soldering. During the second year sheet iron work is introduced, also riveting, bending, guttering, making cans, cups, etc., from patterns.

During the thir year the student is taught how to draft patterns and work from his own designs. He does work during the year in the following: Brazing cornice, stamping, joining cast iron, wrought iron, brass and lead pipes, furnace work, ornamental tin and exhibition work. (The course covers three years.)

VII.—BRICKLAYING.

The course in bricklaying will include plain house-building, plastering and concreting. The course is divided as follows:

First year class will be taught how to make mortar, the names and proper use of ordinary bricklayers' tools, the bonds, the bond rod, and the difference between headers and stretches in a wall.

The second year represent those intending to take the complete course. Their work will be: Building flues, plain four and nine inch walls, common arches, besides lathing and two-coat plastering work.

Third Year—Fireplaces, circular and gothic arches, bedding sills, whenever it is possible, cement work, pavements and hearths, white-coating and sand-finishing.

Fourth Year—Projections, flat arches, setting door and window frames, tiling and plain press brick work, kalsomining and concreting.

The work is sometimes interrupted by weather; in these cases lectures will be given, bearing on estimates, measurements, etc. A. D. Watkins.

ACADEMIC DEPARTMENT.

JAS. B. DUDLEY, President and Head of Department.

J. D. CHAVIS, Director of English.

CHAS. E. STEWART, Director of Music and Asst. in English.

S. B. JONES, Mathematics.

B. W. BARNES, Instructor in Night School.

POST-GRADUATE COURSE—J. D. CHAVIS.

To enter this course, the applicant should have completed our Academic Course, or its equivalent elsewhere. Courses offered in our best High Schools and Academies will be accepted as equivalent. Credit will be given applicant for satisfactory experience in teaching.

(By special arrangement of the courses offered by the College, students may enter the regular Teachers' Course after completing the second year of the English Department and pursue it in connection with their Industrial Course.)

Practice in teaching will be required throughout the course.

A special reading course and thesis work will be outlined for each student, upon which he will be examined.

ENGLISH COURSE—J. D. CHAVIS.

FIRST YEAR.

Fall Term—Advanced Grammar, Study of the Sentence, Subject, Predicate, Complements and Modifiers; Phrases and Clauses, Easy Essays, Spelling.

Winter Term—Independent Elements, Complex and Compound Sentences, Elliptical Sentences, Recognition of Parts of Speech, Composition Work.

Spring Term—Inflection, Derivation, and Composition.
General Review. Text: *Buehler*.

SECOND YEAR.

Fall Term—Rhetoric and Composition; Advanced Parsing and Analysis, Essays. (*Buehler*, Part III. is used as a basis.)

Winter Term—Rhetoric, Advanced Parsing and Analysis, Essays.

Spring Term—Rhetoric, Essays, Commercial Correspondence, Selections from English Classics.

THIRD YEAR.

Fall Term—(Text, Lockwood and Emerson.) History of the English Language, Composition Work. (Part I.)

Winter Term—Descriptive Narration, Theme Work and Composition. (Part II.)

Spring Term—Study of the Paragraph, Sentence, Words. (Part III.) Selections from leading authors.

FOURTH YEAR.

Fall Term—Advanced Essay, Logic, Reading English and American Classics, Figures of Speech.

Winter Term—English Classics and Literature, Criticism of Prose and Poetic Composition, Theme Work.

Spring Term—American and English Classics, Argumentation, Essays.

DESCRIPTION OF COURSES.

The course in English is designed to teach the pupil accuracy in the use of words; ease, clearness and force in expression, and the knowledge of the sentence and good composition.

The Freshman class will begin with Grammar and Composition, with practical application to Letter Writing, Notes and Topic Exercises. (Text: *Buehler*.)

The class will read and study selections of choice English. Reproductions of Short Stories will be required throughout the year.



Greenhouse, Interior View

The Sophomore class will begin with Rhetoric and Composition. The study of Etymology and Theme writing is required throughout this course; original description of daily work done in the Industrial Branches.

The Junior class will study General English Literature in connection with Rhetoric and Composition, noting critically at least one work of the leading authors. Exercises in *reading aloud* will be given.

The Senior class will have brief reviews in Grammar, Rhetoric and Composition, with a study of the English Classics. Elements of Logic and Argumentation will be studied in connection with *Theme Work*.

GENERAL HISTORY.

I. Brief study of the Ancient people. Special Lectures on Greek and Roman History. (Fall Term.)

II. The Mediaeval Nations. Special study of European and Asiatic Nations. (Winter Term.)

III. Brief History of Modern Nations. Lectures on American History. History of North Carolina. (Spring Term.)

PURE MATHEMATICS—S. B. JONES.

The following courses are offered: Arithmetic first year class, Algebra in the second year, Plane Geometry in the third year, Solid Geometry and Trigonometry in the fourth year.

I.—ARITHMETIC. First Year.

Fall Term—Percentage, interest, stocks and bonds, proportional parts, partnership.

Winter Term—Powers and roots, mensuration, compound proportion, exchange, measures of temperature, specific gravity.

Spring Term—Introduction to algebra, general review, miscellaneous problems.

Text-book: *Johnson's Advanced School Arithmetic*.

II.—ALGEBRA. Second Year.

Fall Term—First principles, four simple rules, integral linear equations, simple factoring.

Winter Term—Highest common factor, least common multiple, factors, fractions, fractional equations, simultaneous linear equations, problems.

Spring Term—Involution and evolution, theory of exponents; ratio and proportion; quadratic equations and problems involving the same.

Text-book: *Wells' First Course in Algebra*.

III.—PLANE GEOMETRY. Third Year.

Fall Term—Definitions, geometry of rectilinear figures, including theorems and exercises. Book I.

Winter Term—The geometry of the circle—definitions, theorems and exercises. The geometry of similar polygonous is begun. Book II. to Book III, Prop. XV.

Spring Term—The geometry of similar polygonous is continued. The geometry of regular polygonous—definitions, theorems and exercises. Book III., Prop XV. through Book V.

Text-book: *Wells' New Plane Geometry*.

IV.—SOLID GEOMETRY. Fourth Year.

Fall Term—Lines and planes in space; the geometry of the pyramid, cone, sphere, etc.

V.—TRIGONOMETRY. Fourth Year.

Winter Term—Scope and practical applications of trigonometry; functions of angles; general formulae; logarithms.

Spring Term—Solution of right triangles; general properties of triangles; solution of oblique triangles.

Text-books: *Wells' New Plane and Solid Geometry*; *Wells' New Plane Trigonometry*.



Carnation House

BOOKKEEPING AND BUSINESS LAWS—W. N. NELSON.

SECOND YEAR.

Fall—Double Entry—Study of Debits and Credits, Study of the various accounts, Capital, Cash, Merchandise, Personal, Profit and Loss, Journal, Ledger and Trial Balance Books, Balancing and Closing of Accounts. Commercial Correspondence—Study of Business Papers and Letters, Modes and Forms of Expressions, Instruction as to Filing Letters and Papers.

Winter—Posting, Ruling, Balance Sheet, Pass Book, Writing Checks, Closing Ledger, Partnership, Exercises in Commercial Correspondence.

Spring—Closing out of a Business. Resources and Liabilities, Commercial Law and Business Papers. Contracts—Construction, Arrangements, Essential Elements, Persons Competent to Make Contracts. Partnership—Advantages and Disadvantages, Rights, Duties. Corporations—Powers and Liabilities, Advantages, Formation, Laws Governing Them. Agency—How Created, Principal—His Duties, Rights and Liabilities; Agent—His Duties, Rights and Liabilities. Negotiable Papers—Notes, Bonds, Money Orders, Drafts, Endorsements, Protest, Duties of Holder. Legal Papers—Deeds, Deeds of Trust, Mortgages, General Principles governing same.

Text Book for Bookkeeping—The Twentieth Century Bookkeeping and Office Practice, J. W. Baker, Knoxville, Tenn. Practical Law. Ellis Publishing Co.

PREPARATORY DEPARTMENT.

I.—ENGLISH.

Fall Term—Parts of Speech, Simple Sentences with Subject, Predicate, and Object, Dictation and Transcription, Spelling, Reading.

Winter Term—Parsing, Inflections of Nouns and Pronouns, Verbs, Adjectives, Adverbs, Reproduction of Easy Narratives, Spelling, Reading.

Spring Term—Parsing and Analysis, Turning outlines into continuous narratives, Punctuation. Stories from Hawthorne. Spelling Reading.

II.—UNITED STATES HISTORY.

The leading facts, causes and sequences showing growth of our country and national history will be studied with a view to develop patriotism.

The History of North Carolina will be studied with a view to develop State pride.

III.—GEOGRAPHY.

Fall—United States, British America, Mexico, Central America, West Indies and South America.

Winter—Europe and Asia.

Spring—Africa, Australia and Oceanica with general review.

IV.—ARITHMETIC.

Fall Term—Notation and numeration; four simple rules; factors; decimal fractions; highest common factor; least common multiple.

Winter Term—Common fractions; compound numbers.

Spring Term—Practical measurements; metric system; general review.

Text-book: *Johnson's Advanced School Arithmetic.*

MUSIC—CHAS. E. STEWART.

The work in music for each class will embrace a practical study of the rudiments of music. Especial work will be done in unison and choral singing, a thorough study of the notes, scales, rests and smaller details being made.

A choral society, a band and an orchestra will be organized about the beginning of the school year. Those wishing to join



Trevarth General, A. J. C. C., No. 65092

any of these organizations must be at the school and ready for work as soon as possible in the early part of the fall term, for the band and orchestra cannot accept performers after this time unless by especial arrangement.

Those contemplating buying an orchestral or band instrument with the intention of joining either the band or orchestra should consult the instructor in music before doing so.

Those wishing to make a special study of the piano, voice, or one of the band or orchestral instruments will be given the opportunity of doing so at small cost.

NIGHT SCHOOL.

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best that the conditions will permit will be given, and students attending the night school may eventually arrange to enter the day school. Courses completed in the night school receive the same credit as if completed in the day school.

It is especially desirable that the young men of the city who are employed during the day will avail themselves of this opportunity.

To enter the night school, the applicant should be sixteen years of age, and he should first secure work. This may be done by sending written application immediately to The President, A. & M. College, Greensboro, N. C.

ROSTER OF NIGHT SCHOOL.

Days	7—8	8—8.30	8.30—9	9—9.30
Monday.....	Arithmetic...	English.....	Reading.....	Writing.....
Tuesday.....	Arithmetic...	Geography...	Spelling.....	Reading.....
Wednesday....	Arithmetic..	English.....	Reading.....	Writing.....
Thursday.....	Arithmetic...	Geography...	Writing.....	Reading.....
Saturday.....	Arithmetic..	Geography...	Writing.....	Reading.....



Faculty

LIST OF GRADUATES.

1899.

"No steps backwards."

Cheek, W. T. C., B. S., State Normal.....Winston, N. C.
 Cunningham, I. C., B. S., Physican.....Knoxville, Tenn.
 Curtis, A. W., M. Agr., Agriculturist, W. Va. Col. Inst., Institute, W. Va.
 Falkener, E. L., B. Agr.,.....Tuskegee, Ala.
 Joyner, J. M., B. Agr.,.....1329 Poplar St., Philadelphia, Pa.
 Robinson, P. E., B. Agr.,.....Greensboro, N. C.
 Student Northwestern University, Chicago.
 *Watson, A.Greensboro, N. C.

1900.

"By our efforts we rise."

*Best, C. H.Grove Hill, N. C.
 Green, J. H., M. S.,.....Wilmington, N. C.
 Principal Welleston Graded School.
 Moore, R. D., B. Agr., Postal Clerk.....Wilmington, N. C.
 Neal, J. P., B. S.,.....Winston-Salem, N. C.
 Plummer, E. S., B. S., Mechanic.....Brooklyn, N. Y.
 *Quick, J. R.
 Robinson, Chas., B. S.,.....Tuskegee, Ala.

1901.

"Fortune favors the brave."

Colson, E. F., B. Agr., Dairyman.....Greensboro, N. C.
 Edwards, G. A., M. S.,.....Raleigh, N. C.
 Teacher, Manual Training, Shaw University.
 Grimes, Frances T., B. S.,.....Asheville, N. C.

1902.

"After the contest, victory."

Bullock, Mrs. H. A., B. S., Housekeeper.....Greensboro, N. C.
 Henderson, A. P., B. Agr.,.....Chicago
 Hepler, T. H., B. Agr., Dairyman.....Station 3, Newport News, Va.
 Holcombe, A. J. P., B. Agr.,.....Raleigh, N. C.
 Garrett, Mrs. F. E., TeacherGreensboro, N. C.
 Mebane, A. L., M. Agr.,.....Frankfort, Ky.
 Agriculturist, State Normal School.
 Quinn, Wm., B. S., Mechanic, D. & B. Institute.....Raleigh, N. C.
 White, W. A., B. Agr.,.....Hillsboro, N. C.

1903.

"More beyond."

- Alexander, W. G., B. S., Engineer.....422 Elton St., Brooklyn, N. Y.
 Amey, Chas. G., B. S., Manager Durham Textile Mills..Durham, N. C.
 Burnett, A. C., B. Agr., Teacher Agr. Carlisle Ind. School. Carlisle, Pa.
 Forney, H. G., B. Agr., Agriculturist, J. K. Brick School..Enfield, N. C.
 Haywood, Burke, B. S., Mechanic.....Raleigh, N. C.
 Holmes, J. W., B. S., Architect, St. Augustine School....Raleigh, N. C.
 Hunter, C. C., B. Agr.....West Raleigh, N. C.
 Jefferson, C. B., B. S.....Warrenton, N. C.
 McLendon, J. R., B. S.....Topeka, Kansas
 Mechanic, N. & I. School, Topeka, Kansas.
 Robinson, R. R., B. Agr.....Tuskegee, Ala.
 Robinson, W. F., B. Agr., Florist, A. & M. College....Greensboro, N. C.
 Yores, Edward, B. S.....824 N. 13th St., Philadelphia, Pa.

1904.

"Through the dust to the stars."

- Chance, W. C., B. Agr., Pres. Hicks' Normal In. School. Parmalee, N. C.
 Edward, W. T., B. S., 607 Lincoln St., Wilmington, Del. (Siler City, N. C.)
 Greenlee, Percy C., B. Agr.....111 Foot St., New Haven, Conn.
 Jones, L. A., B. Agr.....Rocky Point, N. C.
 Oldham, A. A., B. S., Architect.....Greensboro, N. C.
 Ramseur, L. L., B. Agr. (Croom, Md.) Teacher.....Newton, N. C.
 *Reaves, W. V.Glendon, N. C.

1905.

"Thus ends our first lesson."

- Hooper, L. B., B. Agr.....Central Mech. Works, Keyston, W. Va.
 Johnson, J. I., B. Agr., Dairyman.....Greensboro, N. C.
 Lamb, W. M., B. Agr., Dairyman..Box 1, Station 3, Newport News, Va.
 Richie, E. W., B. S. (Howard Univ.)..25 Wolwick St., Spartanburg, S. C.
 Turner R. R., B. S., Tinner.....Raleigh, N. C.
 Watson, P. P., B. S.....High Point N. & I. School, High Point, N. C.

Specials.

- Jones, G. W., CarpenterGreensboro, N. C.
 Prather, E. A.Hayti St., Raleigh, N. C.

1906.

"Our Aim Victory."

- Ford, I. R., B. S., ManufacturerGreensboro, N. C.
 Greenlee, N. B., R. Agr.....Washington, D. C.
 Hawkins, J. A., B. S.....Cary, N. C.



Sophomore Class

Johnson, W. A., B. Agr., Dairyman.....	Greensboro, N. C.
McRae, S. D., B. Agr.....	Thomasville, N. C.
Principal Graded School, Sanford, N. C.	
Rand, John Milton, B. Agr....	529 Spruce St. N. W., Washington, D. C.
Stewart, Needham, B. Agr., Dairyman..	520 W. Market St., Greensboro

Special, With Short Course Certificates.

Baldwin, M. L., Rev.	Greensboro, N. C.
Lee, Jas. A.	Thomasville, N. C.
Faduma, Arisatuke, Troy Academy (Prin.).....	Troy, N. C.

1907.

"Climb tho' the rock be rugged."

Caesar, Robert, B. Agr.....	Mount Airy, N. C.
Carter, O. H., B. Agr.,	Fayetteville, N. C.
Donnell, Clyde, B. Agr. (Washington, D. C.).....	Greensboro, N. C.
Davis, Chas. G., B. S.....	Greensboro, N. C.
Keck, William, B. Agr. (Washington, D. C.).....	Greensboro, N. C.
Rivera, T. A., B. Agr.....	Durham, N. C.
Scott, Chas. A., B. Agr.....	Cambria, Va.

Head. Agricultural Dept. Christiansburg Institute.

Smith, Edward, B. S.....	Greensboro, N. C.
Truman, J. C., B. S.....	Durham, N. C.
Williams, M. W., B. Agr (Arelie).....	Halifax, N. C.

Special.

*Leach, Thomas	Pittsboro, N. C.
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1908.

"Lifting as we climb."

Alston, A. J., B. Agr.....	Arcola, N. C.
Bailey, N. A., B. Agr.....	Pittsboro, N. C., R. F. D. 2.
Baldwin, Seaton, B. Agr.....	Philadelphia, Pa., 708 S. Mervin St.
Cotton, Samuel, B. S.....	Philadelphia, Pa., 708 S. Mervin St.
Darden, A. N., B. Agr.....	Wilson, N. C., 110 Pender St.
Flow, Baxter D., B. Agr.....	Matthews, N. C., R. F. D. 28, Box 50.
Foster, Chas. L., B. S.	Prairie View, Texas
Harrison, M. L., B. S.....	Yorkville, S. C., R. F. D. 2.
Harrison, R. H., B. S.....	Yorkville, S. C., R. F. D. 2
Johnson, Enoch J., B. Agr.....	Cheraw, S. C.
Lamb, J. L., B. Agr.....	Fentress, Va., Box 26
McGimpsey, J. R., B. Agr.....	Fonta Flora, N. C.
Merrick, Edward R., B. Agr.....	Durham, N. C., 406 Fayetteville St.
Powell, Wylie, B. Agr.....	Wilson, N. C.
Reid, Chas. B., B. Agr.....	Wadesboro, N. C., Box 133

Smith, John R., B. Agr.Louisburg, N. C.
 Spaulding, John W., B. S.Elkton, N. C.

Special.

Holmes, W. H.Goldston, N. C.

Class of 1909.

Barnes, B. W., B. Agr., Bursar A. & M. College.....Greensboro
 Berry, Richard, B. S. Orange
 Crawford, J. L., B. Agr. Wilson
 Davis, C. J., B. Agr., Public School Teacher.....Anson
 Davis, J. H., B. Agr.Edgecombe
 Evans, Edward, B. S., (Stu. Howard Univ. Washington)...Cumberland
 Gill, Jas. C., B. Agr., Agriculturist State Nor. Sch...Fayetteville, N. C.
 Mabery, Samuel, B. S.Catawba
 Markham, W. H., B. S.Durham
 Maske, J. D., B. S., Teacher Manual Training, Sedalia, N. C....Anson
 Mitchell, John W., B. Agr.Cumberland
 Nelson, Fred D., B. S.Guilford
 Price, P. B., B. Agr.Edgecombe
 Webb, H. E., B. Agr., Farmer.....Alamance
 Wray, John D., B. Agr., Asst. Farm Supt. Tuskegee Inst. Tuskegee, Ala.
 Waugh, George, B. Agr. Guilford
 Wilkins, J. W., B. Agr. Durham

Two-Year Course Graduates.

Ingram, W. H., FarmerAnson
 Jordan, J. F., FarmerGuilford

*—Deceased.

GRADUATES OF THE PREPARATORY DEPARTMENT.

Class of 1900.

Alston, Sarah V. (Miss.).....Raleigh, N. C.
 Carter, Alma J. (Miss) Teacher)Reidsville, N. C.
 Colley, J. C.Durham, N. C.
 Cotton, Lillian (Miss)Chester, S. C.
 *Davis, L. E.Wilmington, N. C.
 Davis, Mary O. (Miss).....Hillsdale, N. C.
 Davis, R. T.Wilmington, N. C.
 *Dudley, S. Inez (Miss).....Greensboro, N. C.
 Dunham, P. Wm.Euloria, S. C.



Football Team, 1909-10

Farrington, Bertha (Miss).....	Greensboro, N. C.
Hooper, T. H.	Winston, N. C.
Jeffreys, Annie F. (Miss).....	Petersburg, Va.
Jones, Estella D. (Miss).....	Chapel Hill, N. C.
McKenzie, Sarah P. (Miss) Teacher.....	Greensboro, N. C.
Pritchett, Nannie L. (Miss).....	Greensboro, N. C.
*Quick, Knox S.	Laurinburg, N. C.
Richardson, M. L. (Miss).....	Wilmington, N. C.
Simmons, Victor W.	Statesville, N. C.
Strong, Andrew J.	Norfolk, Va.
Willis, Josie H. (Miss).....	Wilmington, N. C.
Wilson, Lillie B. (Miss).....	Hillsboro, N. C.
Witherspoon, Annie F. (Miss).....	Greenville, N. C.
Wooten, David	Princeville, N. C.
Wright, Annie C.	Danville, Va.

Class of 1901.

Gwyn, Cecil B. (Miss).....	Greensboro, N. C.
*Jones, Georgia (Miss).....	Raleigh, N. C.
Jackson, N. E.	Carthage, N. C.
Logan, Erkwood	Gale, N. C.
Lipscombe, Hattie B. (Miss).....	Newport News, Va.
Mapp, Sadie (Miss).....	Philadelphia, Pa.
Palmer, Dinah (Miss)	Church Hill, N. C.
Reaves, W. V.	Greensboro, N. C.
Rankin, A. E.	Greensboro, N. C.
Reynolds, Mattie (Miss).....	Waynesville, N. C.
Watson, Della A. (Miss).....	Grove Hill, N. C.

*—Deceased.

N. B.—In order that this list may be kept accurately, graduates are requested to inform the President of any change in address, vocation, etc.

SCHOLARSHIPS AND PRIZES FOR 1910-1911.

The A. M. Scales Scholarship of \$25.00 to the Junior having the highest record; available at the beginning of the Senior year. Awarded to F. B. Williams, class of 1911.

The Alumni Association Scholarship of \$25.00 to the Sopho-

more having the best record; available at the beginning of the Junior year.

The North Carolina Mutual and Provident scholarship of \$25.00 to the Freshman having the highest record; available at the beginning of the Sophomore year. Won by Lawrence Christmas, class of 1913.

The A. & M. Local Alumni Association at Tuskegee Institute scholarship of \$25.00 to be given to the student making the highest average in his entrance examination; available at the beginning of the Freshman year.

The class of 1909 scholarship of \$15.00 to be given to the student that has the second highest average in the Freshman class; available at the beginning of the Sophomore year.

The Kimball scholarship of \$25.00 to be given to the Junior who has the highest average in the Agricultural department; available at the beginning of the Senior year.

The Virginia-Carolina Chemical Company—a prize of \$20.00 to the Senior having the highest record in Agriculture. Won by C. V. Dixon; a prize of \$5.00 to the Senior having the next highest record. Won by N. R. Lewis.

The T. W. Wood & Sons, seed dealers, Richmond—a Loving Cup to be given to the Junior having the highest average in Agriculture; to be awarded in the Senior year. Won by F. B. Williams, class 1911.

The Odell Medal to be given to the student in the Senior class having the highest record in the Mechanical department.

The Hagan's medal for the Senior having the highest average in English. Won by C. W. Lawrence.



Baseball Team, 1910

LIST OF STUDENTS.

Preparatory Class.

Alexander, Reece	Guilford
Alexander, Nathaniel	Cabarrus
Alston, Jerry	Guilford
Alston, H.	Halifax
Alston, Kinchin	Halifax
Allen, H. B.	Anson
Anthony, J. A.	Guilford
Barbee, Atlas	Durham
Blake, Joseph	Wake
Blue, John H.	Robeson
Booth, Thomas	Orange
Buirdick, George	Virginia
Caldwell, J. F.	Cabarrus
Chapman, Ned.	South Carolina
Christian, Charles	Montgomery
Christian, Lewis	Montgomery
Clark, Clemmie	Scotland
Covington, J. P.	Alamance
Cowan, H. B.	Iredell
Craver, R. B.	Davidson
Crow, R. W.	Orange
Daves, Geo. W.	Nash
Davidson, Edward E.	Mecklenburg
Dick, Henry G.	Guilford
Dick, Luther	Guilford
Dupree, Dennis	Greene
Dupree, Jacob	Greene
Eatmon, Bennett	Wilson
Ellison, Lewis	Greene
Farrington, E. W.	Guilford
Ford, Jas. L.	Rutherford
Foster, Samuel	Buncombe
Foxhall, Lancaster	Beaufort
Fulton, Samuel H.	Stokes
Gilchrist, Robert	Guilford
Goodman, Jas. Roy	Robeson
Grandy, Wm. H.	Johnston
Graves, Charlie	Guilford
Greene, Burman	Warren
Hairston, Edward	Forsyth

Hardy, George	Mecklenburg
Hargraves, James	Halifax
Harper, Bert	Greene
Harris, John	Cabarrus
Harris, Melroy	Warren
Hayden, Charles	Virginia
Headen, Guy	Guilford
Hines, Richmond W.	Richmond
Hocutt, H. H.	Johnston
Hollomon, Raleigh Bledsoe	Hertford
Ingram, J. P.	Anson
Johnston, E. K.	Halifax
Johnson, R. L.	Mecklenburg
Johnson, Leroy	Iredell
Jones, Willie	Orange
Kallam, Chester	Stokes
King, Lloyd	Rockingham
Lassiter, James W.	Gates
Ledbetter, Preston H.	Montgomery
Lopp, Orville	Davidson
McConnell, Ellison	Guilford
McConnell, Joseph	Guilford
McCullough, Starkey	New Hanover
McNair, Artemus	Robeson
McNeill, Frank	Scotland
McRae, J. A.	Robeson
McWilliams, Morris	Halifax
Malloy, P. A.	Scotland
Maxwell, Jas.	Mecklenburg
Mills, Shadrack	Rutherford
Minter, Arthur	Lee
Mitchell, Wm. Henry	Guilford
Monk, William	Guilford
Noble, Henry	Rockingham
Noble, W. L.	Rockingham
Pace, S. W.	Virginia
Peace, C. W.	Moore
Perry, William	Johnston
Petty, Calvin	Craven
Pyatt, Edward	South Carolina
Ralph, Arthur	Gates
Ready, James	New Hanover
Richmond, James	Guilford
Riddick, Zachariah	Richmond
Robinson, C. H.	Anson



Holstein Bull

Russell, Hampton H.	Cabarrus
Sapp, John	Guilford
Sawyer, Dayton	Surrey
Scurlock, David	Moore
Sellars, Henry	Chatham
Simmons, Jerry	Pender
Slade, Lawson	Wake
Snipes, John Henry Walter	Guilford
Small, Stanley	Davidson
Smith, Howard	Illinois
Spaulding, Cephas	Columbus
Taylor, Joseph	Orange
Thompson, Chas. Frank	Moore
Thompson, Willie	Moore
Torrian, Oscar	Guilford
Torrian, Eugene	Guilford
Tyson, Henry	Moore
Walls, Graham	Richmond
Walls, Hassie	Richmond
Walker, Clarence	Guilford
Watson, Jesse	Chatham
Watson, George Washington	Chatham
Weaver, Rufus	Orange
White, Charles S.	Cabarrus
Whitley, B. W.	Johnston
Williams, A. L.	Richmond
Williams, J. H.	Halifax
Wooten, Samuel	Edgecombe

First Year Class.

Abernathy, Frank	Lincoln
Anderson, W. T.	Virginia
Barber, John H.	Cabarrus
Benton, Jos. L.	Orange
Bost, Kedron E.	Davidson
Burgin, Wm.	South Carolina
Burnett, Foster	New Hanover
Christmas, Lawrence	Cumberland
Cochrane, R. B.	Catawba
Cody, Sylvester	Guilford
Dortch, Ralph W.	Wayne
Dowtin, J. W.	Halifax
Colson, John A.	Anson
Compton, Wm.	Guilford

Ellison, B. J.	Greene
Feamster, Leon	Iredell
Fitzgerald, John	Guilford
Floyd, John	Robeson
Foster, Wm. H.	Guilford
Gaines, Samuel	Cabarrus
Hannah, S. F.	Chatham
Harrison, J. W.	Lee
Harvey, Harrington	Bermuda, B. W. I.
Holland, George	Gaston
Hollomon, Herbert	Hertford
Humphrey, W. H.	Gaston
James, Henry W.	New Hanover
Jordan, Chas.	Washington
Koger, Weeley	Guilford
Lassiter, J. C.	Wilson
Leak, Jas. A.	Wake
Lindsay, Ulysses, G.	Guilford
Locklayer, George	Virginia
Love, C. P.	Haywood
Love, George B.	Haywood
McConnell, W. A.	Guilford
McKellar, Duncan	Robeson
McNeill, Claudius W.	Wake
McRae, Willie	Wake
McRae, Owen L.	Moore
Mills, Chester	Rutherford
Newsome, W. F.	Guilford
Powell, S. W.	Robeson
Quick, J. D.	Richmond
Reynolds, W. R.	Gates
Riddick, Walter E.	Virginia
Roberts, George	Cleveland
Sanks, Carlos C.	Maryland
Simmons, Sidney B.	Cumberland
Smith, Harry	Guilford
Swann, J. T.	Alamance
Tucker, W. J.	Robeson
Watson, Henry	Durham
White, Charles G.	Ohio
Williams, Daniel P.	Wilson
Wood, Albion T.	Guilford

Second Year Class.

Brooks, Samuel	Guilford
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Brown, Daniel Edward	Onslow
Brown, Samuel James Fink	New Hanover
Drake, Charles	Richmond
Ferguson, Lanston	Virginia
Finney, J. L.	Virginia
Foster, Edward E.	Guilford
Guess, William H.	Wayne
Harris, Carris Blaine	Warren
Holden, Percy Spafford	Franklin
Leak, Henry Clayton	Richmond
Lightner, R. H.	South Carolina
McConnell, Willie J.	Guilford
Mosley, Weldon Henry	Mecklenburg
Pope, John Israel	Franklin
Quick, John D.	Richmond
Shuford, James Stanford	Buncombe
Smyre, Mayfield F.	Catawba
Thomas, Elwood Paul	Davidson
Webb, James O.	Virginia
Wharton, Fletcher Decatur	Guilford

Third Year Class.

Bryant, William Henry	Wilson
Busbee, Robert Lincoln	Greene
Byarm, Alonza Luther	Mecklenburg
Donnell, Clifford Smith	Guilford
Mask, James Walter	Anson
Moore, Lonnie	Mecklenburg
Slade, Sir Walter Raleigh	Wake
William, Frederick Bertrand	New Hanover

Fourth Year Class.

Bunn, Roger Edgar	Wayne
Byarm, Luther P.	Mecklenburg
Dixon, Cornelius Vanderbilt	Alamance
Johnson, Alonzo Bernard	Person
Lawrence, Cephas Warrick	New Hanover
Lewis, Needam Roscoe	Johnson
Pearson, Harry	Pender
Sanders, Madison Samuel	South Carolina
Waugh, Sterling Thomas	Guilford

Special.

Fitzgerald, Wm. H.	Durham
Jackson, C. V.	South Carolina

McKeiver, Edward	South Carolina
Pair, O. L.	Wake
Thompson, Albert H.	South Carolina
Thompson, R. T.	South Carolina

Post Graduates.

Barnes, Boisy Winslow	Edgecomb
Gill, James Caswell	Cumberland
Price, Pierre Bayard	Edgecomb
Wilkins, Joseph Waltham	Durham

Distribution of Students by States and Counties of North Carolina.

County.	No.	County.	No.	County.	No.
Alamance	3	Gaston.	2	Onslow	1
Anson	5	Gates	3	Orange	6
Buncombe	2	Greene	6	Pender	2
Beaufort	1	Guilford	35	Person	1
Cabarrus	7	Halifax	7	Richmond	9
Catawaba	2	Haywood.	2	Robeson.	8
Chatham	4	Hertford	2	Rockingham	3
Cleveland	1	Iredell	3	Rutherford	3
Craven	1	Johnson	5	Scotland	3
Columbus	1	Lee	2	Surry	1
Cumberland	3	Lincoln	1	Stokes	2
Davidson	5	Mecklenburg.	8	Wake	7
Durham	4	Montgomery.	3	Warren.	3
Edgecombe	3	Moore	6	Wayne	3
Franklin	2	Nash	1	Washington	1
Forsyth	1	New Manover	7	Wilson	4

Summary of Regular Students.

North Carolina	195
South Carolina	9
Virginia	9
Bermuda, B. W. I.	1
Illinois	1
Maryland	1
Ohio	1

Total217

Distribution of Summer School Students.

County.	No.	County.	No.	County & State. No.
Alamance	2	Guilford	104	Robeson.. . . . 1
Buncombe	1	Montgomery	1	Richmond 2
Catawba	1	Monroe	1	Rockingham 2
Chatham	1	Moore	1	Stokes. 1
Davidson	2	New Hanover	4	Vance 1
Davie	1	Onslow	1	Wake 2
Durham	3	Orange	1	South Carolina 2
Forsyth	8	Randolph.	2	Indiana 1

Summary of All Students for Year Ending May 31, 1910.

North Carolina	338
South Carolina	11
Virginia	9
Bermuda, B. W. I.	1
Illinois ..	1
Indiana ..	1
Maryland	1
Ohio	1

Total363

Number of States	6
Number Foreign Countries	1
Number of Counties of North Carolina...	52

A. & M. COLLEGE SCHEDULE

Fall Term

Days 8:30-9		9-10	10-11	11-12	12-1	2-4	7-9:30
Mon.	P. English I. Arithmetic II. A. English M. English III. A. Physics A. Physics IV. A. Entomology M. Eng. Hand'g	Arithmetic English Algebra Algebra Animal Breeding Steam Engine Agr. Physics Materials (2)	Geography Physiology Gen. Chemistry Gen. Chemistry English English Solid Geometry Solid Geometry	N. C. History Plant Biology Mechanics Mechanics Geometry Geometry English English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop Agronomy (2) Shop		
Tues.	P. English I. Arithmetic II. A. English M. English III. A. Horticulture M. Elec. Eng. IV. A. Farm Mech M. Hydraulics	Arithmetic English Algebra Algebra Bacteriology Mechanism Political Economy Political Economy	Geography Physiology Bookkeeping Bookkeeping Solid Geometry Solid Geometry	Music Physics Physics Physics Geometry Geometry English English	Drawing Drawing Drawing Drawing Dairying Drawing Chemistry Drawing		
Wed.	P. English I. Arithmetic II. A. English M. English III. A. Physics A. Physics IV. A. Entomology M. Eng. Hand'g	Arithmetic English Algebra Algebra Animal Breeding Steam Engine Agr. Physics Materials	Geography Physiology Gen. Chemistry Gen. Chemistry English English Solid Geometry Solid Geometry	N. C. History Plant Biology Mechanics Mechanics Geometry Geometry English English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop Agronomy Shop		
Thurs.	P. English I. Arithmetic II. A. English M. English III. A. Horticulture M. Elec. Eng. IV. A. Farm Mech M. Hydraulics	Arithmetic English Algebra Algebra Bacteriology Mechanism Political Economy Political Economy	Writing Gen. History Bookkeeping Bookkeeping English English Solid Geometry Solid Geometry	Music Biology Physics Physics Geometry Geometry English English	Drawing Drawing Drawing Drawing Dairying Drawing Chemistry Drawing		
Fri.	P. English I. Arithmetic II. A. English M. English III. A. Physics A. Physics IV. A. Entomology M. Eng. Hand'g	Arithmetic English Algebra Algebra Animal Breeding Steam Engine Agr. Physics	Geography Physiology Gen. Chemistry Gen. Chemistry English English Solid Geometry Solid Geometry	N. C. History Plant Biology Mechanics Mechanics Geometry Geometry English English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop		

Music for the 2nd, 3rd and 4th year classes, Mondays, Wednesdays and Fridays.

A. & M. COLLEGE SCHEDULE

P. M.

Winter Term

Days	8:30-9	9-10	10-11	11-12	12-1	2-4	7-9:30
Mon.	P I. English II. Arithmetic III. A. English M. English IV. A. Physics M. Physics M. Entomology M. P P Designs	English Arithmetic English Algebra Study of Breeds Steam Engine Agr. Physics Estimates	Arithmetic English Algebra Bacteriology Mechanism Political Economy Political Economy	Geography Physiology Gen. Chemistry Gen. Chemistry English English Trigonometry Trigonometry	U. S. History Animal Biology Mechanics Mechanics Geometry Geometry English English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop Agronomy Shop	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop Agronomy Shop
Tues.	P I. English II. Arithmetic III. A. English M. English IV. A. Horticulture M. Elec. Eng. M. Farm Mech M. Hyd. Motors	English Arithmetic English Algebra Horticulture Elec. Eng. Farm Mech Hyd. Motors	Arithmetic English Algebra Bacteriology Mechanism Political Economy Political Economy	Writing Gen. History Bookkeeping Bookkeeping Notes Notes Trigonometry Trigonometry	Writing Music Physics Physics Geometry Geometry Pomology House Planning	Drawing Drawing Geom. Drawing Geom. Drawing Dairying Drawing Chemistry Drawing	Drawing Drawing Geom. Drawing Geom. Drawing Dairying Drawing Chemistry Drawing
Wed.	P I. English II. Arithmetic III. A. English M. English IV. A. Physics M. Physics M. Entomology M. P P Designs	English Arithmetic English Algebra Study of Breeds Steam Engine Agr. Physics Estimates	Arithmetic English Algebra Bacteriology Mechanism Political Economy Political Economy	Geography Physiology Gen. Chemistry Gen. Chemistry English English Trigonometry Trigonometry	U. S. History Animal Biology Mechanics Mechanics Geometry Geometry English English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop Agronomy Shop	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop Agronomy Shop
Thurs.	P I. English II. Arithmetic III. A. English M. English IV. A. Horticulture M. Elec. Eng. M. Farm Mech M. Hyd. Motors	English Arithmetic English Algebra Horticulture Elec. Eng. Farm Mech Hyd. Motors	Arithmetic English Algebra Bacteriology Mechanism Political Economy Political Economy	Writing Gen. History Bookkeeping Bookkeeping Notes Notes Trigonometry Trigonometry	Writing Music Physics Physics Geometry Geometry Pomology House Planning	Drawing Drawing Geom. Drawing Geom. Drawing Dairying Drawing Chemistry Drawing	Drawing Drawing Geom. Drawing Geom. Drawing Dairying Drawing Chemistry Drawing
Fri.	P I. English II. Arithmetic III. A. English M. English IV. A. Physics M. Physics M. Entomology M. P P Designs	English Arithmetic English Algebra Study of Breeds Steam Engine	Arithmetic English Algebra Bacteriology Mechanism Political Economy Political Economy	Geography Physiology Gen. Chemistry Gen. Chemistry English English Trigonometry Trigonometry	U. S. History Animal Biology Mechanics Mechanics Geometry Geometry English English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop

Music for the 2nd, 3rd and 4th year classes, Mondays, Wednesdays and Fridays.

A. & M. COLLEGE SCHEDULE

P. M.

Spring Term

A. M.

Days	8:30-9	9-10	10-11	11-12	12-1	2-4	7-9:30
Chapel Exercises.							
Mon.	P I. English II. A. English III. M. English IV. A. Physics M. Physics Botany, Etc.	English Algebra A. English M. English A. Physics M. Physics Botany, Etc.	Arithmetic English Algebra Algebra Vet. Science Heat, Ventilation	Geography Physiology Gen. Chemistry Gen. Chemistry English Trigonometry	U. S. History Animal Biology Mechanics Mechanics Geometry Geometry English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop	
Tues.	P I. English II. A. English III. M. English IV. A. Horticulture M. Elec. Eng. M. Specifica.	English Algebra A. English M. English A. Horticulture M. Elec. Eng. M. Specifica.	Arithmetic English Algebra Algebra Geology Gas Engines Political Economy Political Economy	Writing Gen. History Bookkeeping Bookkeeping Notes His. of Architecture Surveying Surveying	Writing Music Physics Physics Geometry Geometry Surveying Surveying	Drawing Drawing Geom. Drawing Geom. Drawing Dairying Drawing Agr. Chemistry. Drawing	
Wed.	P I. English II. A. English III. M. English IV. A. Physics M. Physics Botany, Etc.	English Algebra A. English M. English A. Physics M. Physics Botany, Etc.	Arithmetic English Algebra Algebra Vet. Science Heat, Ventilation	Geography Physiology Gen. Chemistry Gen. Chemistry English Trigonometry	U. S. History Animal Biology Mechanics Mechanics Geometry Geometry English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop	
Thurs.	P I. English II. A. English III. M. English IV. A. Horticulture M. Elec. Eng. M. Specifica.	English Algebra A. English M. English A. Horticulture M. Elec. Eng. M. Specifica.	Arithmetic English Algebra Algebra Geology Gas Engines Political Economy Political Economy	Writing Gen. History Bookkeeping Bookkeeping Notes His. of Architecture Surveying Surveying	Music Biology Physics Physics Geometry Geometry Surveying Surveying	Drawing Drawing Geom. Drawing Geom. Drawing Dairying Drawing Agr. Chemistry. Drawing	
Fri.	P I. English II. A. English III. M. English IV. A. Physics M. Physics Botany, Etc.	English Algebra A. English M. English A. Physics M. Physics Botany, Etc.	Arithmetic English Algebra Algebra Vet. Science Heat, Ventilation	Geography Physiology Gen. Chemistry Gen. Chemistry English Trigonometry	U. S. History Animal Biology Mechanics Mechanics Geometry Geometry English	Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Shop, Dry, G House Chemistry Shop	

Music for the 2nd, 3rd and 4th year classes, Mondays, Wednesdays and Fridays.

Examination Schedules for the Session

Fall Term Ending November 30, 1910.

Monday, 28th.	Tuesday, 29th.	Wednesday, 30th.	Thursday, 31st.
<p>P. English</p> <p>A. M. 1. Arithmetic</p> <p>2. English</p> <p>9 to 11 3. Physics</p> <p>4. Solid Geometry</p>	<p>Arithmetic</p> <p>English</p> <p>Algebra</p> <p>English</p> <p>Political Economy</p>	<p>Geography</p> <p>General History</p> <p>General Chemistry</p> <p>Bacteriology (A)</p> <p>Mechanism (M)</p>	<p>Reading</p> <p>Agriculture</p> <p>Physiology</p> <p>Steam Engine, etc. (M)</p> <p>Agric. Physics (A)</p>
<p>P. History</p> <p>A. M. 1.</p> <p>2.</p> <p>11 to 1 3. Geometry</p> <p>4. English</p>	<p>Writing</p> <p>.....</p> <p>.....</p> <p>Literature</p> <p>Chemistry</p>	<p>.....</p> <p>.....</p> <p>Bookkeeping</p> <p>Qualitative Ana.</p> <p>Steam, Engineering (M)</p>	<p>Reading</p> <p>.....</p> <p>Drawing</p> <p>Hist. Education</p> <p>Entomology</p>
<p>P. Dairying</p> <p>P. M. 1. Shop</p> <p>2. Shop</p> <p>2 to 4 3. Ana. Chem.</p> <p>4. Estimates</p>	<p>Drawing</p> <p>Greenhouse</p> <p>Shop</p> <p>Dairying A</p> <p>Literature</p>	<p>Shop</p> <p>Dairying</p> <p>Shop</p> <p>Shop (M)</p> <p>Agronomy</p>	<p>Greenhouse</p> <p>Music</p> <p>Shop</p> <p>Dairying</p> <p>Shop (M) or Drawing</p>

Removal of condition 4-6 each examination day, during vacant periods and following Saturday.

Examination Schedules for the Session

Winter Term Ending February 28, 1911.

Tuesday, 28.		Wednesday, 1.	Thursday, 2.	Friday, 3.
A. M. 9 to 11	P. English	Arithmetic	Geography	Reading
	1. Arithmetic	English	General History	Agriculture
	2. Algebra	English	Physiology	Bookkeeping
	3. Physics	Geometry	Eng. Lit.	English
	4. English	Literature	Trigonometry	Political Economy
A. M. 11 to 1	P. History	Composition	Writing	Reading
	1. Music	Drawing	Shop	Greenhouse
	2. Chemistry	.....	.....	.....
	3.	Qual. Analysis	Bacteriology (A)	House Planning (M)
	4. Agr. Physics (A)	Entomology (A)	Mechanism (M)	Agron. (A) and Shop Wrk
P. M. 2 to 4	P. Dairying	Drawing	Shop	Greenhouse
	1.	Dairying	.....	.....
	2. Shop	.....	Drawing	.....
	3. Ana. Chem. (A)	Drawing	Dairying	Shop (M)
	4. Build. Constr.	Plumbing	Psychology	Ag. Chem. and Drawing

Removal of condition 4-6 each examination day and following Saturday.

Examination Schedules for the Session

Spring Term Ending May 25, 1911.

Friday, 20.		Monday, 22.	Tuesday, 23.	Wednesday, 24.
A. M. 9 to 11	P. Composition	Arithmetic	English	Reading
	1. Algebra	English	General History	Elementary Chem.
	2. English	Algebra	Market Garden	Mat. Constr.
	3. Physics	Literature	Geometry	English
	4. English	Pol. Economy	Civics	Trigonometry
A. M. 11 to 1	P. History	Spelling	.....	Reading
	1. Plant Biology	Drawing	Dairying	.....
	2. Bookkeeping	Physiology	Drawing	Shop
	3. Heat & Vent.	Geology	Qual. Analysis	Ana. Chem.
	4. Shop	Pedagogy	Mechanism	Dairying
P. M. 2 to 4	P. Shop	Drawing	Greenhouse	.....
	1. Shop	Greenhouse	.....	.....
	2. ....	.....	.....	.....
	3. Dairying	.....	Drawing	Shop
	4. Plumbing	Education	Agr. Chem.	Thesis

Removal of condition 46 each examination day and during vacant periods and following Saturday.

SUMMER SCHOOL.

The eleventh annual session of the A. & M. College Summer School will begin June 6th and continue four weeks. The Negro teachers of the State are invited to co-operate in building a strong State Summer School that will help to foster patriotism and bind together all who are interested in educational progress.

Specialist in Primary Method, School Management and all the common branches will be included on the staff of instructors.

Terms—Session, \$10.00; week, \$3.00; day, 50c.

The college is beautifully located and is an ideal spot for a pleasant summer resort.

(Fill blanks, tear out and send to A. & M. College, Greensboro, N. C.)

APPLICATION FOR ADMISSION

- 1. My name is
- 2. I live in
- 3. OnStreet, Number.....
- 4. InCounty, State of.....
- 5. Parent's name is
Guardian's
- 6. Home (Postoffice address)
State OnSt., No.....
- 7. I was.....years old last birthday.
- 8. I wish to enter school.....191..
- 9. I attended school last at
- 10. Recommended by
- 11. My present work is
- 12. I desire to learn.....

In applying for admission, I promise, if accepted, to conduct myself in a manner becoming a gentleman, and to make proper use of the educational advantages offered. I promise to observe and obey the regulations of the institution.

(Applicant's signature).....

Do not write below this line.

The applicant has been examined and assigned to.....Year Class
.....Dept. Registrar.
Tuition Lodging Medical Fee
.....Bursar.
Vaccination requirements satisfied, this.....191..
.....M. D.

The above application approved.
.....President.

No..... Entered..... Page.....

College Song

(By Mrs. Jas. B. Dudley.)

Dear A. & M., dear A. & M.,
A monument inded,
Around thy base with grateful hearts
Behold thy students kneel;
We bless the power that gave thee
birth
To help us in our need;
We'll ever strive while here on earth
All loyalty to yield!

(Chorus)

With joy, with joy, dear A. & M.,
Thy students turn from thee
To spread thy trophies year by year
From Dare to Cherokee.

Dear A. & M., dear A. & M.,
The signet thou shalt be,
Set by our great, old commonwealth,
Proud boaster of the free,
She'd have the record of her worth
On granite not inscribed;
Nay; let the children of her birth
Proclaim it by their lives.

Dear A. & M., dear A. & M.,
Henceforth our aim shall be,
By precepts wise, by deeds more sure,
To bless the State through thee.
The arts of industry to wield
Against an idle foe;
A harvest rich, from ripened fields
Of what thy students sow.

BULLETIN
OF
A. & M. COLLEGE

PUBLISHED BY

Agricultural & Mechanical College
For the Colored Race



GREENSBORO, - NORTH CAROLINA

Issued Quarterly

Vol. 7

SEPTEMBER 1913

No. 2

CALENDAR, 1913-1914

Entered as Second-Class Matter, July 2nd, 1909, at the Postoffice at
Greensboro, N. C., under Act of July 16th, 1894

ANNOUNCEMENTS

1. **REGISTRATION FEE.**—Each student will be required to pay upon entering each session a registration fee of \$2, and a library fee of \$1.

2. **MEDICAL FEE.**—Every student lodger must pay one dollar medical fee. There will be no further charges for medical attention; but this fee does not include expenses for medicine, bandages or dressings.

3. **VACCINATION.**—Each student will be required to be vaccinated on entrance unless he can satisfy the College physician that vaccination is unnecessary.

4. **LODGING DEPOSITS.**—On account of limited accommodations, students can secure rooms at once by paying one dollar for September lodging. In case of sickness or inability to attend, the one dollar will be refunded, provided application for its return is made before September 1, 1913.

5. **SPECIAL EXAMINATIONS.**—Entrance examinations and examinations for the removal of conditions will be held September 1, 2, 3 and 4. All students with conditions should avail themselves of the opportunity. As special examinations are *not held* during the session, no conditions will be moved except during the examination weeks.

Each student must pay on entering all entrance fees and expenses for his first month.

CALENDAR FROM JUNE 1, 1913, TO MAY 31, 1914.

1913.

JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4	5						1	2
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
29	30						27	28	29	30	31			24	25	26	27	28	29	30
														31						
SEPTEMBER							OCTOBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6				1	2	3	4	2	3	4	5	6	7	8
7	8	9	10	11	12	13	5	6	7	8	9	10	11	9	10	11	12	13	14	15
14	15	16	17	18	19	20	12	13	14	15	16	17	18	16	17	18	19	20	21	22
21	22	23	24	25	26	27	19	20	21	22	23	24	25	23	24	25	26	27	28	29
28	29	30					26	27	28	29	30	31		30						

1913-1914

DECEMBER							JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31							
MARCH							APRIL							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4	3	4	5	6	7	8	9
8	9	10	11	12	13	14	5	6	7	8	9	10	11	10	11	12	13	14	15	16
15	16	17	18	19	20	21	12	13	14	15	16	17	18	17	18	19	20	21	22	23
22	23	24	25	26	27	28	19	20	21	22	23	24	25	24	25	26	27	28	29	30
29	30	31					26	27	28	29	30			31						

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CALENDAR 1913—1914

September 1, 2, 3, 4—Entrance examinations and examinations for removal of conditions.

September 5—Registration day.

September 8—Fall Term begins.

November 24-27—Fall Term examinations.

November 29—Fall Term ends.

December 1—Winter Term begins.

February 23-26—Winter Term examinations.

February 28—Winter Term ends.

March 2—Spring Term begins.

May 22-27—Spring Term examinations.

May 24—Baccalaureate sermon.

May 28—Commencement.

June 29—Summer School.

HOLIDAYS

Thanksgiving Day.

Christmas Day and New Year's Day.

Washington's Birthday, February 22.

Easter Monday.

SPECIAL DAYS

Arbor Day (day after Thanksgiving)—Special programme by Department of Agriculture and Chemistry.

Douglas' Birthday, and Lincoln's Birthday, February 12. Special programme by English Department.

Morrill's Birthday, April 14—Agricultural and Mechanical Societies have special programme.

BOARD OF TRUSTEES

M. W. Bell.....	Cherokee County.
W. E. Brooks	Chatham County.
W. A. Darden	Pitt County.
W. A. Enloe	Jackson County.
J. I. Foust	Guilford County.
W. L. Kluttz.....	Rowan County.
J. B. Minor	Guilford County.
R. W. Morphis	Rockingham County.
M. C. S. Noble	Orange County.
C. M. Vanstory	Guilford County.

OFFICERS OF TRUSTEE BOARD

M. C. S. Noble, Chairman.

A. T. Whitsett, Secretary.

FACULTY AND OFFICERS

James B. Dudley, A. M., LL. D., President and Head of the English Department.

Junius Rooks, Steward, 1895.

J. H. Bluford, B. S., A. M., Director of the Agricultural Department and Instructor in Agriculture and Chemistry. 1902.

W. N. Nelson, A. B., Acting Director of the Mechanical Department and Instructor in Drawing and Carpentry. 1903.

Martin Goins, Secretary and Librarian. 1907.

A. T. Whitsett, Treasurer. 1909.

A. D. Watkins, Instructor in Bricklaying and Plastering. 1909.

B. W. Barnes, B. Agr., Registrar and Bursar. 1909.

S. B. Jones, B. A., M. D., Director of the Academic Department and College Physician. 1910.

M. S. Sanders, B. S. M., Instructor in Broommaking. 1909.

Charles E. Stewart, B. D., Instructor in Music and in charge of the Discipline. 1909.

C. L. Foster, B. S., Instructor in Forging and Wheelwrighting. 1910.

D. K. Cherry, A. B., Instructor in Mathematics. 1911.

W. F. Coleman, Instructor in Geography and History. 1911.

A. L. Mebane, B. Agr., M. S. A., Instructor in Dairying and Animal Husbandry. 1911.

L. P. Byarm, B. S. M., Instructor in Machine Shop Practice. 1911.



North Carolina A. & M. College, 1911
For the year

J. D. Wray, B. Agr., Superintendent of Farm and Instructor in Practical Agronomy. 1912.

R. H. Hampton, B. S., Instructor in Horticulture. 1912.

F. D. Wharton, B. S. A., Instructor in Market Gardening. 1912.

R. C. Atkins, Instructor in Dairying and Animal Husbandry. 1912.

W. L. Horne, Assistant Secretary. 1912.

D. J. Jordan, M. S., LL. B., Instructor in the Academic Department and in charge of the Teachers' Training Department.

E. W. Fisher, Instructor in Machine Wood Turning. 1912.

A. U. Grant, Instructor in Hand Wood Turning and Mechanical Drawing. 1912.

Hamilton Clark, Instructor in the Academic Department. 1912.

F. D. Bluford, A. B., Pd. B., Instructor in the Academic Department, 1912.

THE AGRICULTURAL AND MECHANICAL COLLEGE FOR THE COLORED RACE.

This college was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the college and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, who are elected by the General Assembly, or appointed by the Governor, for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the college; to elect the president, instructors, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the college.

The financial support of the college for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and support of colleges for the benefit of agriculture and mechanic arts to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The college also receives an appropriation from the State

for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

The citizens of Greensboro donated fourteen acres of land and \$11,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year.

Every negro who will observe the splendid record of success and of usefulness which the graduates almost without exception are making must naturally feel grateful to the "Old North State" for the excellent work that this Commonwealth is doing for the uplift of its negro citizens. Every intelligent citizen, black or white, who will note the substantial interest and splendid support that this institution is receiving from every State official and from the representatives of the people in every Legislature, must admire the wise and liberal treatment North Carolina is giving for the maintenance of helpful institutions for her negro citizens, and ever appreciate the excellent results that are being accomplished. It is certain no negro can study the important work of this institution and its influence for the advancement of all people without feeling a stronger sense of obligation to his State that he should strive to be a better, truer and more patriotic citizen of the great State of North Carolina.

ADMISSION

Applicants must be in good health and not under 16 years of age; must understand fairly well the forms and rules of the English language, must know addition, subtraction, multiplication and division of whole numbers, and have a knowledge of geography and history.

Entrance examinations will not be required of students who have completed the eighth grade in the grammar schools, or



Map of Greensboro

who can furnish evidence that they have completed in reputable schools courses similar to those completed by the class to which they seek admission.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

TUITION

Tuition of one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

EXPENSES

Although it is the aim of the college to furnish as much employment as possible to assist students in defraying expenses, no promise nor guarantee can be made in advance to furnish such work.

The charges made by the college for board, lodging and tuition must be settled in advance the first day of each month. The college does not hold students on credit. No monthly payment will be returned and no student will be credited with fractional parts of monthly payments, except that students entering may make their initial payment to the first of the next month.

Positively no student will be allowed to enter any department of the college without paying in *cash* the first month's expenses, as stated below.

No student should expect to enter any department of the



View of Campus

college unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Tuition, per month	\$1.00
Lodging—use of room, bedding, etc., per month.....	1.00
Board, per month	5.00

TERM PAYMENTS.

Chemical Laboratory Fee	\$1.00
Physical Laboratory Fee .....	.50
Work Shop (Mechanical Department).....	1.00

YEARLY PAYMENTS.

Incidental Deposit	\$2.00
Registration Fee	2.00
Dining Hall Fee	1.00
Medical Fee	1.00
Library Fee	1.00
Students' Building Fund	1.00
Athletic Fee .....	.50

Note.—Students entering for the first time will be required to pay a fee of \$5.00 in place of Registration Fee and Students' Building Fund fee.

These charges are payable strictly in advance.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, work-shops and dining-hall when properly countersigned.

In addition to the above expenses the cost of text books must be considered. This will amount to about \$12.50 per year.

Free tuition or county students will pay \$1.00 per month less than the above.

Board, lodging, medical fee, tuition, and incidental deposit must be paid before the rooms are assigned and tickets of admission to class-rooms, work-shops and dining-hall are issued.

In addition to the above charges each student will be required to give at least three hours work per week.

SUPPLIES

Each student must bring a hairbrush and comb, toothbrush, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit \$2.00 to cover any charges which may be made against him for damages done.

It is desired that all students be uniformed. A student returning to the college must show that he owns, or has placed an order for, a uniform before he can receive advanced classification cards. Our regular college uniforms are neat and attractive and can be worn at all times. The prices are as follows: Cap, \$1.75; coat, \$7.00; pants, \$3.50. More expensive uniforms can be had if desired. The regular uniform is made of very good material and should last the average student at least two or three years.

No student organization will be allowed to leave the college in a body without being in uniform.

RULES GOVERNING CLASSIFICATION

1. Regular students must take a minimum of fifteen hours of credit work per week at least six of which shall be industrial or manual training work.

2. Examinations for the removal of conditions will be held at no other time than the regular term examination periods.

3. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably.

4. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

5. Any student failing to secure 50 per cent. of the total



Students at Work on Plots

marks obtainable during any term, will be required to take a lower class or sever his connection with the college and be allowed to return the following session.

GRADUATION

It is the aim of this institution to send forth men who are fit representatives. To this end, the faculty reserves the right to refuse to admit any student to the Senior class or to graduate any one who, though qualified by class record, may otherwise be unfit.

Students graduating from the Trade School Courses are entitled to Certificates.

Students are entitled to a Diploma of the college upon the completion of the prescribed courses.

Candidates for graduation from the college, in addition to the work outlined in the catalogue, must spend at least one summer at the college for instruction in practical work, unless they furnish satisfactory reports from responsible persons as to their efficiency.

DEGREES

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Science in Agriculture.

Students graduating from the Mechanical Course shall be entitled to the degree of Bachelor of Science in Mechanics.

Members of the Senior class must deposit the fee for Diploma thirty days before commencement day.

GENERAL INFORMATION

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 3 to 9 cents per hour, for which they can get credit each month at the time of their advanced payment.

Students receiving aid by labor which they may secure at the college are requested to observe: (a) That credit on school expenses, and not money, will be allowed for student labor; (b) that credit cannot be transferred from one student to another.

The several industries operated by the school afford opportunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the college. Parents and guardians are particularly requested to examine our Rules and Regulations, to be found on another page of this catalogue.

It will be the purpose of the college to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. Sunday school is conducted every Sunday during the school year. All religious services will be free from sectarianism. A flourishing Temperance Society is now in operation.

There are two literary societies, the Dunbar and Douglass, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. The faculty, by presence and advice, will seek to encourage these societies. Membership in one or the other of these societies will be compulsory. There are two technical societies, in which special topics in connection with agriculture, mechanics and chemistry are considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the college—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done, with safety; as the college cannot, nor does it desire to rid itself wholly of the responsibility out of school hours of the conduct of students who do not room and board in the college.

Members of the Freshman, Sophomore, Junior and Senior classes and special students who lodge at the college will not be allowed to work in the city except in the employment of the college.

The *industrial* part of each course of instruction applies to all students, *and none will be excused therefrom.*

INDUSTRIAL MUSEUM

An Industrial Museum has been started and already valuable collections of work done by students are to be seen. We have collections representing the work in carpentry, blacksmithing, and the various trades; also specimens from the Agricultural, English and Dairy Departments. Such articles for exhibit are collected once every month.

RULES AND REGULATIONS

1. The signal for rising will be given at 5.45 a. m. Dressing and arranging rooms, 5.45 to 6 a. m. Prayer, 6.15. Breakfast, 7 to 7.30 a. m. Chapel, 8.30 to 9 a. m. Morning session, 9 to 1 p. m. Dinner from 1.10 to 2 p. m. Afternoon session, 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper, 6 to 6.30 p. m. Evening prayer, 6.40 to 6.55. Study, 7 to 9.30. Night school session, 7 to 9.30. Retiring signal and lights out 10.30 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or to indulge in vulgar language will be deemed an unfit associate and will be expelled from the college. Untruthfulness or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all special exercises, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of college life by noises in or near the buildings or who commit intentional damage to college property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect college duties, or who absent themselves from college grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious, meritorious students, and will not be allowed to continue as students in the college.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their sons or wards to attend.

7. Any student shooting or having on his person, in his room, or on the College premises, rifles, spring guns, fire arms or deadly weapons of any kind whatsoever will be dismissed.

8. The use of playing cards, tobacco, spirits, malt or vinous liquors by the students is prohibited. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the college grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory buildings.

12. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands by any member of the Faculty shall be held guilty of contempt and punished accordingly.

13. No students will be retained after he has received thirty-four demerits in any one term of a session.

14. Every new student must be vaccinated before entrance, or present a doctor's certificate showing that he has been successfully vaccinated within two years.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishonesty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

19. Students are not permitted to walk on grass plots and will be demerited for this offence.

By order of

THE BOARD OF TRUSTEES.



Seniors at Practical Work

NOTICE TO AGRICULTURAL STUDENTS

Agricultural students will take notice that beginning with the Spring Term of 1912 the following number of hours of practical work must be acceptably done before graduation from the college:

FRESHMAN CLASS.

Fall Term—75 actual hours, Greenhouse.
 Winter Term—75 actual hours, Dairy.
 Spring Term—75 actual hours, Greenhouse.
 Total for Freshman—225 actual hours, divided as follows:
 Greenhouse, 113 actual hours; Dairy, 113 hours.

SOPHOMORE CLASS.

Fall Term—75 hours, Greenhouse and Campus.
 Winter Term—75 hours, Dairy.
 Spring Term—75 hours, Greenhouse and Plots.
 Total, 225 hours. Greenhouse, 113 hours; Dairy, 113 hours.

JUNIOR CLASS.

Fall Term—75 hours, Greenhouse and Plots.
 Winter Term—75 hours, Dairy.
 Spring Term—75 hours, Market Gardening on Plots.
 Total, 225 hours. Greenhouse, 113 hours; Dairy, 113 hours.
 Summer Term—320 hours, Farm. Total, 545 hours.

SENIOR CLASS.

Fall Term—75 hours, Farm.
 Spring Term—75 hours, Farm.
 Total, 150 hours.

TOTAL HOURS.

Greenhouse, 339 hours.
 Dairy, 339 hours.
 Farm, 470 hours.
 Total, 809 hours.

NOTICE TO MECHANICAL STUDENTS

Mechanical students will take notice that beginning with the

Spring Term of 1912 the following number of hours of practical work must be done satisfactorily before graduation from the College:

FRESHMAN CLASS.

Fall Term—75 actual hours, Carpentry, Brick and Blacksmith S.

Winter Term—75 actual hours, Broom, Machine and Tin Shops.

Spring Term—75 actual hours, Carpentry, Brick and Blacksmith S.

SOPHOMORE CLASS.

Fall Term—75 actual hours, at the trade selected.

Winter Term—75 actual hours, at the trade selected.

Spring Term—75 actual hours, at the trade selected.

JUNIOR CLASS.

Fall Term—75 actual hours, 84 credits, at the trade selected.

Winter Term—75 actual hours, 84 credits, at the trade selected.

Spring Term—75 actual hours, 84 credits, at the trade selected.

SENIOR CLASS.

Fall Term—75 actual hours, 70 credits, at the trade selected.

Winter Term—75 actual hours, 70 credits, at the trade selected.

Spring Term—75 actual hours, 70 credits, at the trade selected.

NOTICE TO TRADE SCHOOL STUDENTS

Trade School students will take notice that the following number of hours of practical work must be satisfactorily performed before graduation from the Trade School Course:

Fall Term—168 hours, at selected trade.

Winter Term—168 hours, at selected trade.

Spring Term—168 hours, at selected trade.

OUTLINE OF COURSE OF STUDY

Eighteen hours must be passed per term and all conditions removed in order to be promoted to the next higher class. Recitation and lecture periods one hour; the laboratory, shop, and other periods, two hours.

FRESHMAN CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Algebra	5	5	5
Biology (Plant)	3		
Biology (Animal)		3	
General History	3	3	3
Music	1	1	1
Elementary Chemistry			3
Shop, Greenhouse or Dairy'g	3	3	3
Drawing	2	2	2

SOPHOMORE CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Plane Geometry	5	5	5
English	5	5	5
Physics	5	5	5
Chemistry	3	3	3
Market Gardening			2
Materials of Construction...	2	2	2
Study of Breeds	2	2	2
Geometrical Drawing	2	2	2
Shop, Greenhouse or Dairy'g	3	3	3
Music	1	1	1

JUNIOR CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Geometry (Solid)	5		
Trigonometry		5	5
English	5	5	5
Bacteriology (A)	2	2	
Steam Engines (M)	3	3	
Gas Engines (M)			2
Geology (A)			2
Animal Breeding (A)	3		
Stock Judging (A)		3	
Veterinary Science (A)			3
Horticulture (A)	2	2	2
Mechanism (M)	2	2	2
Heating and Ventilation (M)		3	
Electrical Engineering (M)	3	3	3
Automobile Engineering (M)	2	2	2
Chemistry—Qual. Anal. (A)	3	3	3
Dairying (A)	2	2	2
Shop (M)	3	3	3
Drawing (M)	2	2	2
Music	1	1	1

SENIOR CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Surveying	2		
English	5	5	5
Political Economy		5	
Agricultural Group:			
Agricultural Physics	3	3	
Thesis			5
Agronomy	2	2	
Entomology	3	3	

Landscape Gardening			2
Agricultural Chemistry	2	2	2

Mechanical Group:

Strength of Materials	2		
Hydraulics	2		
Hydraulic Motors		2	
Engine Handling			2
Drawing	2	2	2
Power Plant Design		2	
Estimates and Specifications	2	2	2
Shop	3	3	3
Houseplanning		2	
Thesis			5
Music	1	1	1

FIRST YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	5
North Carolina History	2	2	2
Geography	2	2	2
Reading .. .	2	2	2
Penmanship	2	2	2
Music	1	1	1
Trade	5	5	5

SECOND YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	5
United States History	2	2	2
Geography	3	3	3
Reading .. .	2	2	2

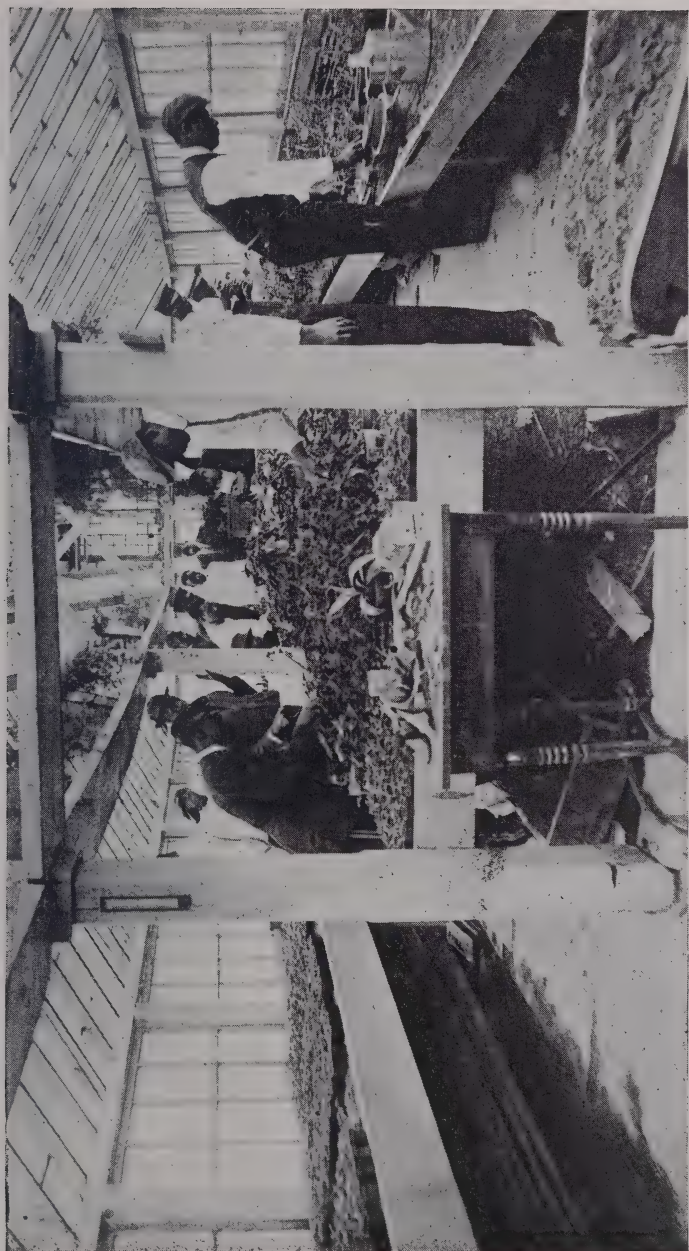
Drawing	2	2	2
Music	1	1	1
Trade	5	5	5

THIRD YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	5
United States History	2	2	2
Physical Geography	2	2	2
Drawing	2	2	2
Physiology	3	3	3
Music	1	1	1
Trade	5	5	5

FOURTH YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Algebra	5	5	5
General History	2	2	2
Bookkeeping	3	3	3
Drawing	2	2	2
Music	1	1	1
Trade	5	5	5



Class in Horticulture

DEPARTMENT OF AGRICULTURE AND CHEMISTRY

Jas. B. Dudley, President.

J. H. Bluford, Head of Department and Instructor in Agriculture and Chemistry.

John D. Wray, Superintendent of Farm and Instructor in Practical Agronomy.

R. H. Hampton, Florist, and Instructor in Horticulture and Botany.

A. L. Mebane, Superintendent of Dairy, and Instructor in Dairy and Animal Husbandry.

R. C. Atkins, Instructor in Animal Husbandry.

F. D. Wharton, Instructor in Market Gardening.

N. A. Bailey, Extension Work; Farm Demonstration Agent.

AGRICULTURAL COURSES

1. A four-year course in Agriculture.
2. A two-year course in Agriculture.
3. A one week's course in Agriculture.

There are three courses in Agriculture—a four-year graded course leading to the degree of Bachelor of Agricultural Science, a two-year course leading to a certificate, and a one-week's course for farmers and others who can only spend a limited amount of time away from their business. The four-year course is designed to give the student a well-rounded education combined with technical and practical instruction. The course is divided so as to give about one-third of the student's time to technical instruction, one-third to scientific and the other third to actual practice. As all agricultural instruction is dependent upon a thorough knowledge of the fundamental sciences the course is essentially scientific rather than literary.

The two-year course is designed especially for the need of those students who have little time to spend in school and wish to get only such instruction as bears directly on their chosen vocation.

Special attention is given to dairying, horticulture, soils, fertilizers, market gardening and stock-raising. The college has frequent calls for young men to do practical work in these subjects.

The one week's course is devoted to a course of lectures and practical demonstrations on dairying, soils, fertilizers and stock-raising. These courses for the most part will be given by experts from the State Department of Agriculture.

METHODS OF INSTRUCTION.

Instruction is given by laboratory work, text-books, lectures and reference reading. The scientific equipment is excellent—probably the best of any negro school in the country. All class room work is supplemented by practical work, either in the field, the garden, the greenhouse, the barn, the dairy, or the chemical or physical laboratory.

EQUIPMENT.

The college has twenty-five acres of land in the immediate campus which is used for horticulture and market garden purposes. In addition to this it has a farm of 103 acres of land, most of which is under cultivation. There is a modern two-story barn which is used for dairy cattle, a piggery, and a small poultry plant.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn harvester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for but-

ter making. It has two United States, one De Laval and one Sharpless Separator, Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, Aerator, etc., thus enabling us to offer the very best course in butter making. We have recently added apparatus and utensils for cheese making for home consumption.

A ninety ton silo has also been erected for which silage is raised every year. A St. Alban's Shredder is used for cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

A modern barn has recently been built at the College farm and plans are prepared for a new dormitory at the farm for the Superintendent and members of the Senior class.

The dairy farm is stocked with a good herd of milch cows.

Different crops such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wurzel, potatoes, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being conducted on the dairy farm, illustrating the effect of different methods of cultivation and fertilization of several crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The greenhouse is maintained to aid the student in the study of Botany and care of flowers. Instruction is also given in the management of a greenhouse on a commercial scale.

Market gardening is practised on a small scale for the purpose of giving the student practice in the management of early truck lands.

DESCRIPTION OF COURSES**A—INDUSTRIAL—PRACTICAL HORTICULTURE****I.—GREENHOUSE MANAGEMENT. CARE OF CAMPUS. 75 actual hours.**

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms. For Freshmen and Sophomores. Fall term. Mr. Hampton.

II.—PROPAGATION OF PLANTS. 75 actual hours. Required Course I.

Practice is given in making cuttings, in pottings, rooting, grafting, budding, etc. The student is also taught how to prepare various fungicides and insecticides, how and when to apply them. For Freshmen and Sophomores. Winter term. Mr. Hampton.

III.—MARKET GARDENING. 75 actual hours. Required Course II. Industrial. For Freshmen and Sophomores.

Practice is given in transplanting plants from the greenhouse or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale. Spring term. Mr. Wharton.

B—AGRICULTURE—BIOLOGY AND GEOLOGY**I.—ELEMENTARY AGRICULTURE.**

This course is a general survey of the whole field of Agriculture dealing in a general way with the fundamentals of Agriculture, such as the Soil, Plant Life, Manures and Fertilizers, Farm Crops, Plant Diseases, Insects and Birds, Live Stock and

Dairying and Feeds and Feeding. This course will be given by lectures, recitation and practical work on the plots. Three hours Fall and Winter Terms. Mr. Bluford.

II.—ELEMENTARY BOTANY.

Lectures, recitations and laboratory work. Special attention is given to plant morphology, the principles of nutrition, reproduction, growth, sex and adaptation to environment. The importance of the fungi and seed plants is emphasized. The principles of plant breeding, crossing, pollination, budding and grafting are taught. Required of Freshmen. Fall term. Two hours. Text—Bailey and Coleman. Mr. Hampton.

III.—ELEMENTARY BIOLOGY.

The various types and principles of animal life; structure and classification of the vertebrates and invertebrates; the common parasites infecting man and the domestic animals. Freshmen. Winter term. Two hours. Text—Bailey and Coleman Elementary Biology. Mr. Hampton.

IV.—ELEMENTARY GEOLOGY.

Structural geology; important minerals and elements of the earth's crust; the igneous or eruptive rocks; sedimentary and metamorphic rocks; dynamic geology—wind and river erosion; underground water and lake deposits; glaciers, mountains, volcanoes; earthquakes and geysers; stratigraphic geology. The uses of fossils; life during the archean and paleozoic times. The glacial period. For Juniors. Spring term. Three hours. Mr. Bluford.

AGRONOMY

V.—FARM MANAGEMENT.

Lectures and recitations upon the selection, location, plan-

ning and the equipment of farms; farm building and machinery. Systems of cropping and farm accounts. For Seniors. Winter term. Two hours. Text—Card's Farm Management. Mr. Wray.

VI.—AGRICULTURAL PHYSICS. Required Courses III. Physics and V. Chemistry and I. Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: Agricultural Physics.—*King*. For Seniors. Fall and Winter terms. Three hours. Mr. Bluford.

VII.—AGRICULTURAL PHYSICS LABORATORY WORK. Courses I., II. and III. required. (Gen. Physics.)

This course will accompany Course IV. with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work. Spring term. Seniors. Two hours. Mr. Bluford.

VIII.—FARM CROPS.

Lectures upon the history, production, harvesting and marketing of farm crops. Practical exercises in harvesting and storing various staple crops. Preparation of soil and the seeding of fall and winter crops; practical exercises in draining land, fall plowing and the preparation of soil for spring seeding. Practical rotation of crops on one acre plats. For Freshmen and Seniors. Fall term; 75 actual hours. Mr. Wray.

IX.—SPECIAL CROPS.

The seeding and harvesting of special crops, such as corn, tobacco, cotton, the clovers and the grasses. Practical exer-



Pure Bred Jersey

cises in the rotation of these crops on one acre plats. For Seniors. Spring term, 75 actual hours. Juniors. Summer term, 320 actual hours. Mr. Wray.

PHYSIOLOGY AND VETERINARY SCIENCE

I. The structure and function of the bones, muscles and joints are carefully studied. The various organs and their functions receive special attention; health laws, ventilation, influence of heredity, preparation and use of domestic remedies; disinfectants and their uses; sanitation and prevention of tuberculosis. For Freshmen. Three hours throughout the year. Text—Law's Physiology of Domestic Animals. Mr. Mebane.

II.—VETERINARY SCIENCE. Three hours. Required Course I. Physiology.

The common diseases of farm animals are briefly discussed, together with remedies for same. Some practical work in caring for sick animals is also provided the student. Text—Veterinary Elements.—Hopkins. For Juniors. Spring Term. A. L. Mebane.

ANIMAL HUSBANDRY AND DAIRYING

I.—ANIMAL BREEDING.

The student is taught the underlying principles of successful breeding; such subjects as atavism, variation, selection, heredity, line-breeding, cross-breeding and in and in-breeding are discussed. Collateral reading required. Text—Shaw's Animal Breeding. For Juniors. Fall term. Three hours. Mr. Atkins.

II.—BREED OF LIVE STOCK.

The origin, history and characteristics of the various breeds

of cattle, sheep and swine are taken up. Especial attention is given to the various types of dairy cattle and hogs. Whenever possible actual specimens are used to show the characteristics of the various breeds of animals. Excursions are frequently made to near by farms for the purpose of score card work. For Juniors. Winter term. Three hours. Mr. Atkins.

III.—MILK AND CREAM TESTING.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in the herd. He also becomes expert in testing cream for acidity according to, at least, two methods.

Lectures and recitation work will be given on the composition, secretion and production of milk. Fall term for Juniors. Three hours. A. L. Mebane.

IV.—BUTTER MAKING. Three hours. Required Course III.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc. For Juniors. Winter term. Mr. A. L. Mebane.

V.—MANAGEMENT OF DAIRY. 75 actual hours. Required Courses III. and IV.

The student is expected to go into the dairy and take charge of the work under the supervision of the instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making. Fall term. For Juniors. Mr. A. L. Mebane.

VI.—DAIRY INDUSTRY.

The cleaning of the dairy barn, the cleaning of cows and



Milking Time

milking; the cleaning of the dairy and dairy utensils. For Freshmen and Sophomores. Fall term, 75 hours; Winter term, 75 hours; Spring term, 75 hours.

C—HORTICULTURE AND BOTANY

I.—BOTANY. Five credits. Desired Course I. Horticulture.

Such subjects as how the plant takes up food from the soil and the atmosphere; the effect of sunlight, air and moisture on plants are noted, diseases of plants and remedies for same are discussed in an elementary way. Given in connection with Course I. Agriculture. Text: Elementary Botany.—*Bailey*. For Seniors. Spring term. Mr. Hampton.

II.—PROPAGATION OF PLANTS. Three hours.

Method of propagating plants by cutting, stolons, suckers, layering seed, etc., are discussed. The principles underlying budding, grafting and pruning are also discussed. Text: Principles of Plant Culture.—*Goff*. Freshmen. Fall term. Mr. Hampton.

III.—SMALL FRUIT CULTURE. Two credits. Required Course II. Horticulture.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the preparation of soil for same. Winter term. Juniors. Mr. Hampton.

IV.—MARKET GARDENING. 160 actual hours; 80 credits. Required Course II. Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, special fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: Vegetable Gardening.—*Bailey*. For Sophomores. Spring term. Mr. Wharton.

V.—POMOLOGY. Two credits. Required Course III. Horticulture.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit are discussed. Text: *Fruit Growing*.—*Bailey*. For Seniors. Winter term. Mr. Hampton.

VI.—LANDSCAPE GARDENING. 75 actual hours. Required Course V. Horticulture.

Principles of embellishing landscapes, planting and management of lawns, management of orchards, pruning, etc. Text: *Landscape Gardening*.—*Maynard*. Spring term. Seniors. Mr.

ENTOMOLOGY AND BACTERIOLOGY

I.—ENTOMOLOGY. Three hours. Required Course VI. Horticulture. Text: *Constock's Insect Life*.

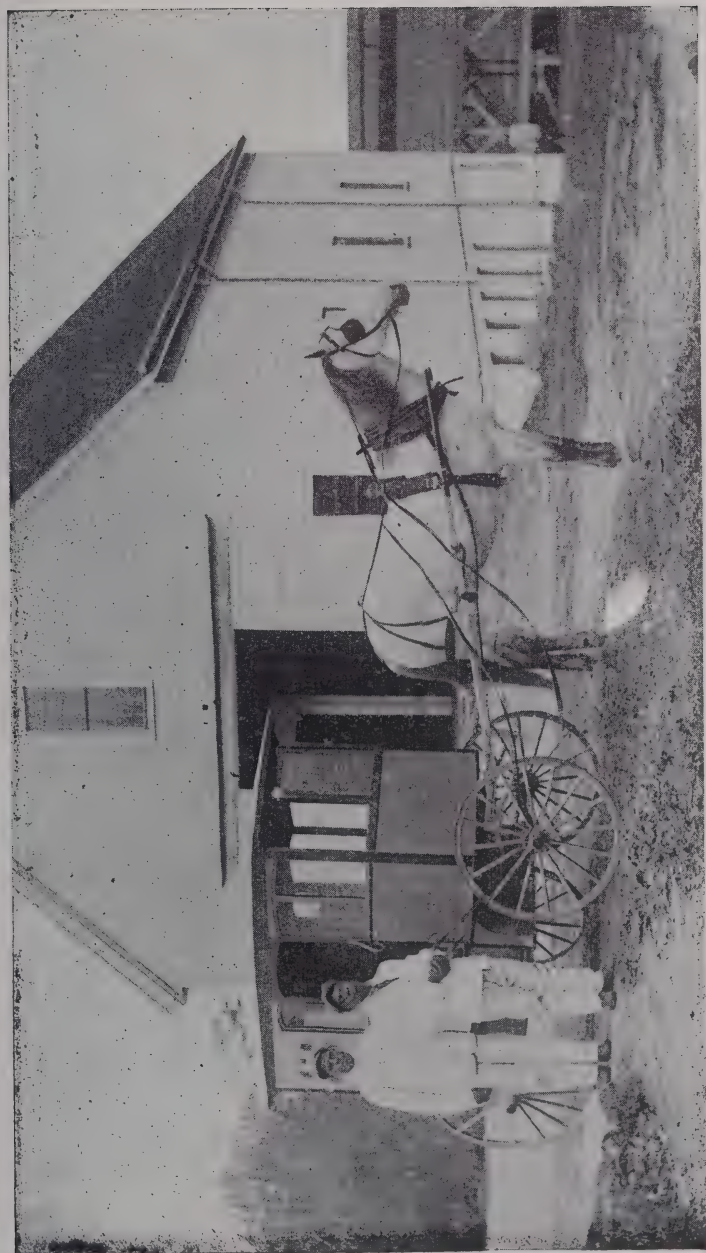
The subject is taught by means of lectures and the student is required to read upon topics assigned him by the instructor. The most common insects and insecticides are studied. For Seniors. Fall term. Mr. Hampton.

II.—BACTERIOLOGY. Three hours. Required Courses II. Horticulture and I. Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work. For Juniors. Fall and Winter terms. A. L. Mebane.

III.—PLANT DISEASES. Three hours. Required Course I. Horticulture.

Lectures and laboratory work. Common diseases, such as the cereal pests and insects; diseases of cotton, tobacco and fruit trees are studied with the aid of the compound microscope. For Seniors. Winter term. Mr. Hampton.



Milk Wagon

D—POULTRY HUSBANDRY

The poultry work at the college has been recently added and is therefore on quite a limited scale, but it is expected that this important industry will take first rank at the college in the next few years. We have already two breeding pens with a number of outdoor home-made brooders and we are now planning to build an incubator cellar and to install several makes of incubators. We have recently purchased the following varieties of poultry: Rhode Island Reds, Partridge Wyandottes, and White Leghorns.

I.—POULTRY HUSBANDRY.

Construction and location of poultry houses; classification and study of the breeds of domestic poultry; breeding, feeding and management; diseases and remedies; production and marketing of eggs; incubation and breeding; capons and caponizing. For Freshmen, Preparatory and two-year students. Three hours, entire year. Mr. A. L. Mebane.

E—COURSES IN CHEMISTRY AND PHYSICS

EQUIPMENT.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recombination of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so com-

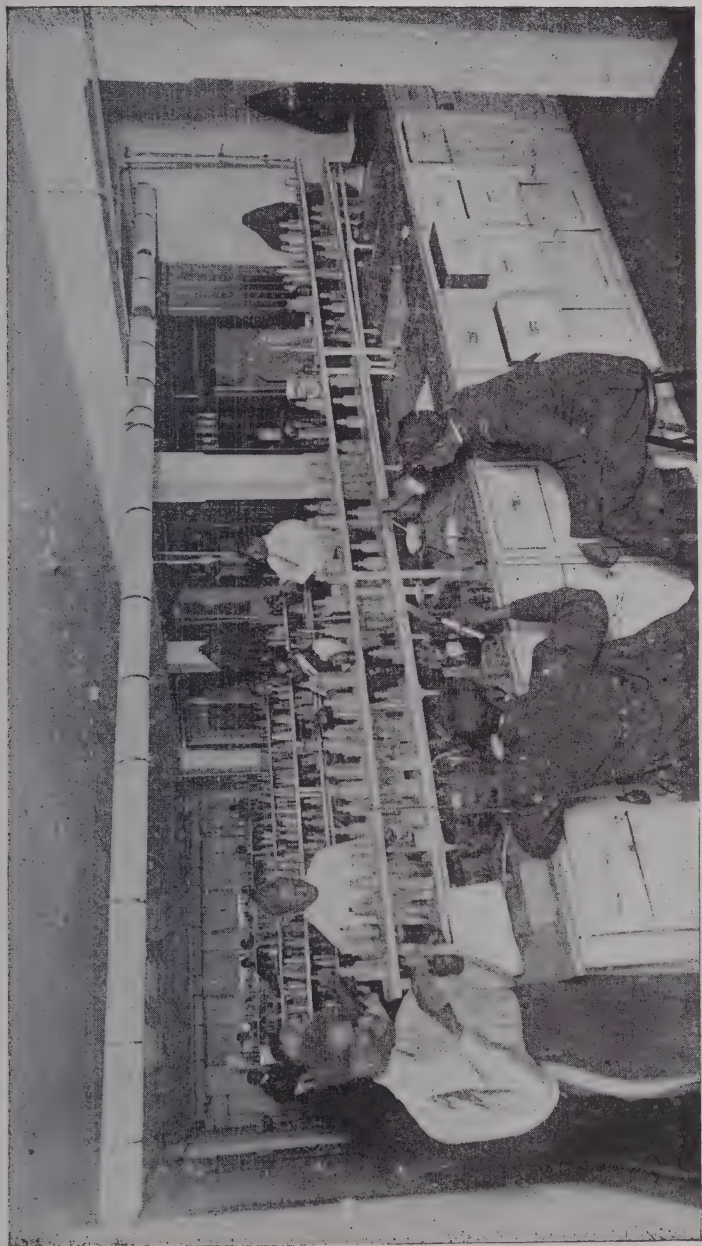
plete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and accessories, an Atwood's machine, Port Lummere and Stereopticon for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases, Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Leyden jars for induction and distribution of electricity, compound microscopes, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration with the stereopticon or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball-bearing balance, 50 cc. flasks with ground glass stoppers drawn out to an open capillary tube for specific gravity work; brass tubes $12\frac{1}{2} \times 1\frac{7}{8}$ inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture a set of brass tubes $16 \times 1\frac{7}{8}$ inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five glass tubes, $30 \times 1\frac{7}{8}$ inches inside measurement, for determining the capillary attraction of soils.

A detailed description of the courses offered by this department follows:

I.—GENERAL CHEMISTRY. Three credits. Required Course II. Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture rooms, which bear directly on and pave the way for Agricultural Chemistry. For Freshmen. Spring term. J. H. Bluford.



Chemical Laboratory

II.—GENERAL CHEMISTRY. Three credits. Require Course I. Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimeographed Notes. For Sophomores. Fall and Winter terms. J. H. Bluford.

III.—QUALITATIVE ANALYSIS. Three credits. Required Course II. Chemistry.

Laboratory work. During this term the student becomes familiar with testing and especially the elements which enter into the composition of plant and animal life. For Sophomores. Spring term. J. H. Bluford.

IV.—QUALITATIVE ANALYSIS. Two credits. Required Course II. Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Notes. Juniors. Fall term. J. H. Bluford.

V.—AGRICULTURAL CHEMISTRY. Two credits. Required Course IV. Chemistry.

Lectures on the chemical composition of soils, plants and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed. For Juniors. Winter and Spring term. J. H. Bluford.

VI.—QUANTITATIVE ANALYSIS. Five credits. Required Course IV. Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of

various agricultural products. For Seniors. Fall term. J. H. Bluford.

VII.—ANIMAL TOXICOLOGY. Two credits. Required Courses I., II., III. and IV. Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning; the pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc. For Seniors. Winter term. J. H. Bluford.

VII.—FEEDING. Five hours. Required Courses III. Agriculture and V. and VI. Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, market and food values of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding rations for the various farm animals are carefully considered. Collateral reading required. Text: Feeding of Animals.—*Jordan*. For Seniors. Spring term. Mr. Atkins.

I.—PHYSICS.

The work of the first term consists of five lectures and recitations per week, the subjects covered being Mechanics, Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work. For Sophomores. J. H. Bluford.

II.—HEAT, MAGNETISM AND ELECTRICITY. Three hours. Course I. Physics desired. Course IV. Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring and hanging electric bells. Special attention is given to the various kinds of galvanic

cells, their uses and relative values. The course is made as practical as possible, so that a student on leaving the college can take up the work of electrician.

III.—SOUND AND LIGHT. Three hours. Course II. desired, V. Mathematics.

This is a continuation of Courses I. and II. and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

IV.—PHYSICAL LABORATORY WORK. Three hours. Courses I., II. and III. required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, Heat, and Electrical Measurements.

DEPARTMENT OF MECHANICS

Jas. B. Dudley, President.

W. N. Nelson, Acting Director.

A. U. Grant, Instructor in Hand Wood Turning.

C. L. Foster, Instructor in Blacksmithing.

A. D. Watkins, Instructor in Masonry.

M. S. Sanders, Instructor in Broom Making.

L. P. Byarm, Machine Shop.

E. W. Fisher, Machine Wood Turning.

From the beginning of the first year the students' time is spent in the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories of the vicinity and the practical application of lectures pointed out.

The first four years in this department may be strictly a trade school. The first year students may, therefore, rotate from shop to shop by terms during this year. After that time those wishing to graduate from a trade will be required to select some industry and continue in it for three years. A certificate will then be given for proficiency if the course has been satisfactorily completed. After that time, those wishing to graduate from the institution will be given an opportunity for instruction in the other shops and will perfect themselves in mathematics, science and drawing.

Students who have not decided upon a trade, but who expect to take the full course, will pass from one shop to another spending a term in each for the first year and the remaining three years will be spent in such special work as they may select.

EQUIPMENT.

Buildings—The main building is a two-story brick structure with basement. On the first floor are located the Carpenter,



Machine Wood Turning

Tin and Machine Shops. The model room is also on this floor. In the basement are the Woodturning and Bricklaying Shops, also the Power and Heating Plant. The second floor contains the recitation, reading and drawing rooms.

The Blacksmith Shop is located in a one-story brick building at the rear of the main building. This is an up-to-date shop with the most modern equipment. An electric motor furnishes the necessary power.

The Broom Shop is a one-story frame building. This building houses the finest broom factory in the city of Greensboro.

The Reading Room is provided with Books of Reference, and Technical Journals. Equipment in Drawing consists of tables, drawing board and T squares. Students will provide themselves with instruments.

A dynamo has been installed and is used for experimental purposes and for lighting the shops. A Central Heating Plant has recently been put in the Mechanical Building. This furnishes opportunity to study the operations of the most improved steam heating system. Instruction in the following trades has been provided:

Architecture, Blacksmithing and General Repairing, Tin-smithing, Machinist, Hand Wood-turning, Machine Wood-turning, Bricklaying and Plastering.

SUBJECTS OF INSTRUCTION.

I.—GEOMETRICAL DRAWING. H. Clark, Instr.

FRESHMAN CLASS.

Fall Term—The student is instructed in definition and plain lettering.

Winter Term—The student is instructed in projectional drawing and block lettering.

Spring Term—During this term the art of copying drawings

and making drawings to scale will be taken up. Special attention will be given to lettering throughout this year.

Text: Monckton's Descriptive Geometry.

II.—MECHANICAL DRAWING. A. U. Grant, Instr.

Fall Term—During this term instruction is given in practical descriptive Geometry and projectional drawing.

Winter Term—In this term the student is instructed in shading, tracing and lettering drawings.

Spring Term—During this term the student is taught to make copies of different drawings, furnished by the teacher and to dimension his work.

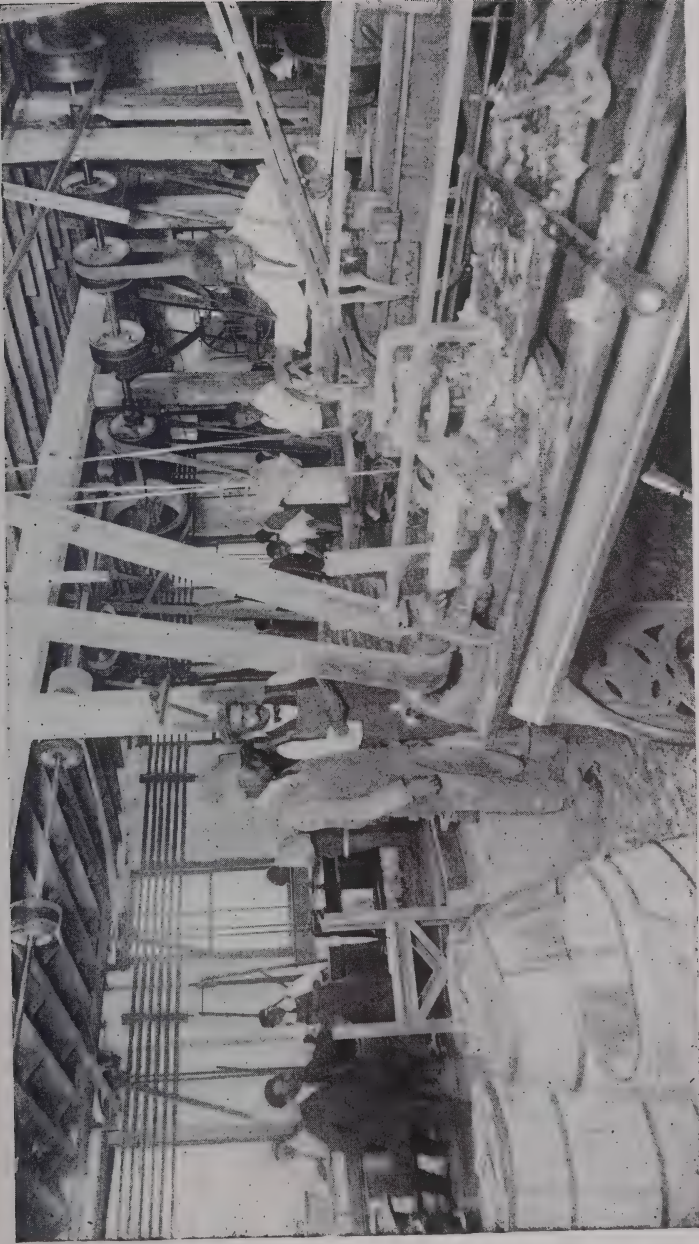
Four hours per week during Sophomore year. Text book: Monckton's Descriptive Geometry.

III.—MACHINE DRAWING. L. P. Byarm.

The student prepares for machine design by familiarizing himself with the proportions and the arrangement of various machines and their parts. The student begins with the work of dimensioning of elementary machine parts from sketches in magazines, text books and of machines of the shops. This leads gradually to the making of working drawings of machines. Two-hour periods twice per week throughout the Junior year.

IV.—MACHINE DRAWING AND DESIGN. L. P. Byarm.

At first the student is taught the design of tools and machines by having him consult freely the trade catalogues, and the working drawings of manufacturing concerns. One two-hour period throughout the Senior year. In addition to the machine drawing the students are given a brief outline of the various principles of mechanics. The necessary theory for proportioning screws, bolts, keys, cutters, shafting, couplings, hangers, belts and rope drives, friction and tooth gearing and engine parts are given.



Wood Turning

V.—MATERIALS.

The student is given the principal materials that are used in building construction and in machine construction, their uses, strength and general characteristics are discussed. The course is given in two one-hour periods during Sophomore year.

VI.—STRENGTH OF MATERIALS.

A review of the principles of mechanics applicable to the strength of materials at rupture, the methods of manufacture, the methods of testing. The mechanical theory of the subject is mainly discussed. Two one-hour periods during first term of Senior year.

VII.—HYDRAULICS.

Hydrostatics and the flow of water over weirs, and through orifices, pipes, and open channels. Two one-hour periods during first term of Senior year. Text: To be adopted.

VIII.—HYDRAULIC MOTORS.

Second term of Senior year. Two hours per week. This course is designed to make the student familiar with the several types of water wheels which are in common use today. The mechanical theory of the turbine and Pelton wheels is developed in detail. Course IX. required. Text: To be adopted.

IX.—STEAM ENGINES.

The following subjects are treated: Types—simple, compound and triple expansion, automatic, rotary and turbines; care and management; indicators, indicated and brake horse power. Steam pumps are also considered in connection with steam engines.

A descriptive study of the various types and makes of steam generators in common use and the adaptability of each type to special localities; combustion of fuels, boiler settings, boiler

accessories, legal requirements. Two one-hour periods first and second terms of the Junior year.

X.—MECHANICS.

This subject will be given throughout the Sophomore year. During the first and second terms the mechanics of solids will be taken up. During the spring term the mechanics of fluids and gases will be studied.

The subject will be presented in such a manner that a knowledge of arithmetic and algebra only will be required in the solution of the problems.

Special attention will be given to the graphical solution of all problems where such solutions can be used to advantage.

This subject is required in all of the courses after the Sophomore year except the drawing and shop courses.

XI.—POWER PLANT DESIGN.

During the second term of the Senior year the student makes a complete design of a power plant, showing position of engines, boiler, pumps, and the most important features. One two-hour period.

XII.—ELEMENTS OF ELECTRICAL ENGINEERING.

This subject is begun in the Junior year with lectures and includes the practical application of electricity for power and lights. During the second and third term of the Junior year the student does laboratory work, which is at first elementary in character, with a view of initiating the student into the methods of connecting circuits, the making of measurements and the use of common apparatus and instruments. W. N. Nelson, Instr.

XIII.—HEATING AND VENTILATING.

The course comprises lectures upon the various methods of heating and ventilating buildings. The systems of heating are

developed from the fire place to the most modern systems of the day. In connection with the course the student may take practical work in steam-fitting and tin work adapted to furnaces and stoves. For Juniors, second term. W. N. Nelson, Instr.

XIV.—GAS ENGINES.

Third term of Junior year. Two hours per week. The aim of this course is to give such theoretical knowledge of the working of the two and four cycle gas engine that the student will be able to make ordinary repairs intelligently. There are two gasoline engines in the laboratories of the department that are used for practical demonstrations. The great popularity of the automobile makes it very desirable that every student graduating from a mechanical school should have a knowledge of the gas engine. Course XII. required. A. U. Grant, Instr.

XV.—MECHANISM.

First and second terms of the Junior year. Two hours per week. This course aims to give as clearly and concisely as possible the principles of mechanical motion so that they may be applied to any mechanism for determining the motion of its parts and to show the methods of dealing with problems of machine design. A. U. Grant, Instr.

XVI.—ENGINE HANDLING.

During the first term of the Senior year the students are given practical instruction in the care and operation of the steam engine and its accessories. The student is required to spend two hours per week in the college power plant under the supervision of a practical stationary engineer. Course XI. is required. L. P. Byarm.

ARCHITECTURE

XVII.—ELEMENTS OF ARCHITECTURE AND ARCHITECTURAL DRAWING.

The evolution of the Art of Building is considered and the artistic achievement—planning, decoration of each of the periods is studied with reference to its structural methods, materials and conditions.

The student is given the classical orders to draw out in order to accustom his eye and mind to good architectural proportions. Great stress is laid on getting the student to the stage where he can draw well, be neat and exact in pencil, pen, and wash drawings. Junior year. Four hours per week. W. N. Nelson, Instr.

XVIII.—ARCHITECTURAL DRAWING.

The problems of this year are given to teach the student to think and reason correctly. In the Senior year the problems become more extensive. The student is made acquainted with the principles underlying the design of different kinds of buildings and the various requirements for such design. (The work covers the Senior year.) W. N. Nelson.

XIX.—ESTIMATES AND SPECIFICATIONS.

The student is taught to estimate the cost of the different buildings that he designs and various problems are given him in order to familiarize him with usual methods of making estimates.

The student is taught the requirements of a good specification; what should be included and what omitted; the relation of specification to working drawings. Two hour periods, first and second terms Senior year. Text—to be selected. A. U. Grant, Instr.



Carpentry Shop

SHOP WORK

I.—CARPENTRY. W. N. Nelson, Instr.

The course in carpentry is designed to cover four years. Each student is given instruction in house carpentry, shop carpentry, cabinet making, wood carving, wood turning and practice on wood-working machinery.

The I. Year Trade class will do Elementary Sloyd work and Whittling. Only simple tools will be used. The models to be made will consist of pencil sharpener, small cart, kite, doll furniture, etc. Text: Elementary Sloyd and Whittling.—*Larson*.

The II. Year Trade will do Advanced Sloyd work, which consists of making various articles useful about the home, such as match box and strike combined, whisk broom holder, shelf, bread-cutting board, tooth brush shelf, towel rack, book rack, key rack, picture frames, etc.

During the III. Year Trade the student is given exercises in planing, squaring, gauging, sawing, laying off lines and dimensions. The different joints of carpentry are made. In the IV. Year Trade, the student makes practical applications of the I., II. and III. years by making articles of furniture and doing simple building.

The Freshman class will do exercises in house framing, laying floors, weather-boarding and general carpentry.

The Sophomore class will continue framing and general carpentry. Exercises in roof construction and putting up cornice will be given.

Junior class will do stair building and special work in roof construction in addition to practice on wood-working machinery, wood carving and turning.

During the fourth year the student takes advanced work in carpentry, pattern work, cabinet work, and shop management and building supervision.

II.—HAND WOOD TURNING COURSE. A. U. Grant, Instr.

Short lectures pertaining to the handling of lathes, the names of the different parts, their use and how to take care of them. Demonstration lessons in wood turning and how the tools are used will be given.

FIRST YEAR.

Fall Term—Names of tools, the kind of work each tool is intended for, how to grind and keep in order. Simple cylindrical and tapered turning.

Winter Term—Practice in beading and baluster turning.

Spring Term—Miniature column turning.

SECOND YEAR.

During this year students are instructed in face plate and spindle turning, such as cups, rosettes, and different forms of hollow turning.

THIRD YEAR.

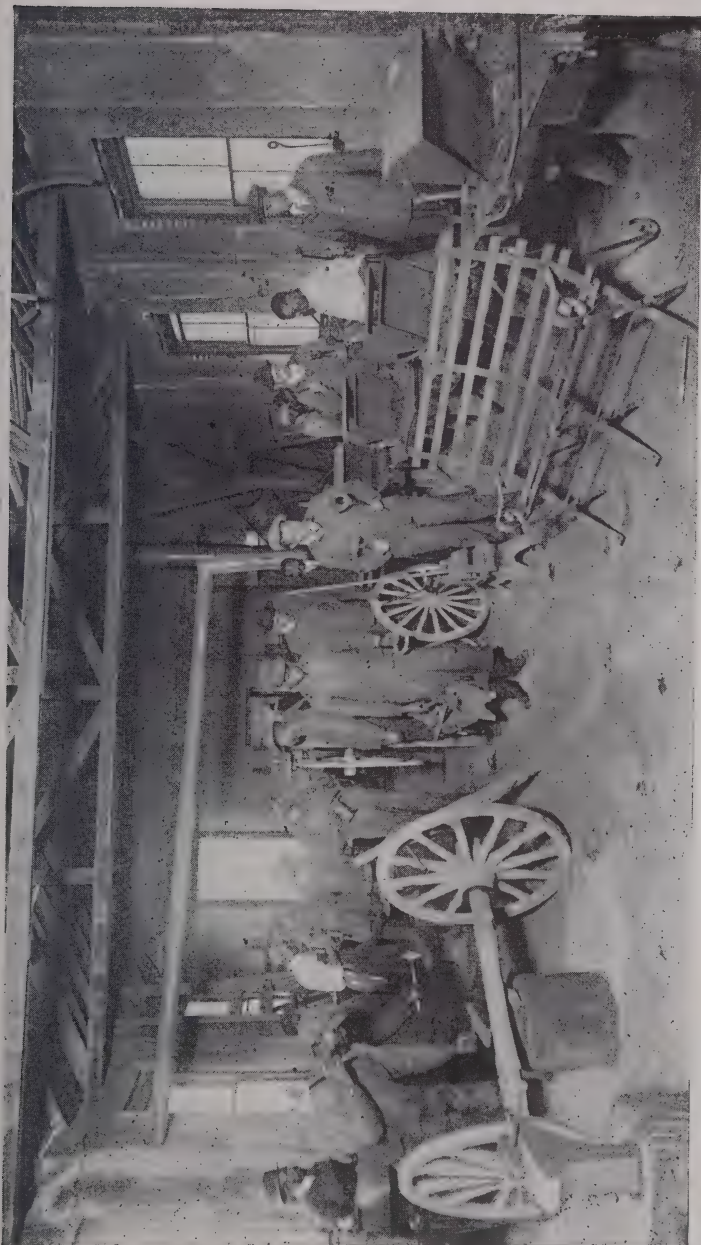
This class will do pattern making and study the various terms used and the use of the shrinkage rule.

FOURTH YEAR.

The fourth year class will be given practice in speed work, band sawing, jointing and surface moulder machine. Each student will be required to provide himself with a rule, 1 pair of 6" dividers, 1 pair of 6" calipers, and one pattern-maker's shrinkage rule.

III.—MACHINE WOOD TURNING. E. W. Fisher, Instructor.

Instruction and short lectures pertaining to the handling of machines; names, parts and care of the same. Special instruction will be given on variety saw mitering, dadoing, ripping fence, cutting off work to desired length. Practical instruc-



Blacksmith Shop

tion on variety lathe turning, chain spindles, mallets, knobs, and variety turnings.

During the term students will be given practical instruction in belt lacing, splicing belts, also practical course in mill-wrighting in connection with the work.

There will be grinding and setting up machines for the various kinds of turnings as the student advances in this line of work.

IV.—FORGING. C. L. Foster, Instr.

The regular course in blacksmithing will consist of all kinds of welds, repairing wagons, buggies, and farm machinery; special stress on horse and the study of the hoof; wheelwright, making spokes, hubs, rims, axles, etc., building wagons and buggies. Divided as follows:

First Year Trade Class—The care of fire, the use of hammer and care of the tools, making staples, hooks, rings, chains, and lessons from blue print from 1 to 12.

Second Year Trade Class—Drawing out tools and tempering, making corner welds, butt welds, tie welds, different heats for proper iron and steel welds. Lessons from blue print from 12 to 24.

Third Trade Year—Banding, strapping, twisting, upsetting, bolt making, thread cutting, and general tool making. Lessons from blue print 24 to 36.

Fourth Year Trade Class—Wagon building, cutting and welding tires, welding buggy axles, shoeing horses, forging tools and tempering steel.

V.—TINSMITHING.

The student who takes sheet metal work must do considerable work in draughting patterns. The first year is devoted largely to familiarizing the student with the various tools, machines and materials used in the trade, and in cutting and plain soldering. During the second year sheet iron work is

introduced, also riveting, bending, guttering, making cans, cups, etc., from patterns.

During the third year the student is taught how to draft patterns and work from his own designs. He does work during the year in the following: Brazing cornice, stamping, joining cast iron, wrought iron, brass and lead pipes, furnace work, ornamental tin and exhibition work. The course covers three years.

VI.—BRICKLAYING. A. D. Watkins, Instr.

The course in Bricklaying is designed to cover the four years of Trade School Work. Four years additional with the college work will be required for a degree. Each student is given practical instruction in house planning and building, concreting, tile making, chimney construction, inside plastering and stucco work.

First Year Trade—Names and use of tools; making and spreading mortar; construction of plain four-inch walls; general helpers.

Second Year Trade—Instruction as to different bonds; small plumbing exercises; making rough concrete; general helpers.

Third Year Trade—Pier construction; pointing exercises; simple plastering exercises.

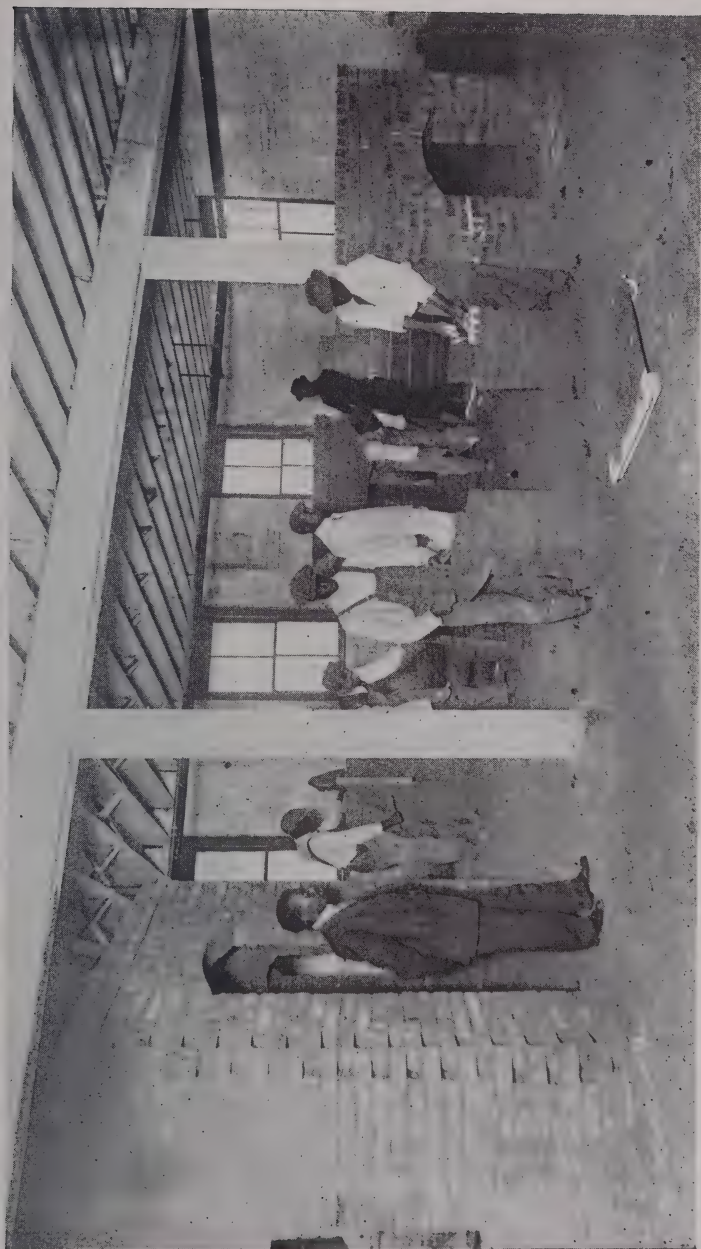
Fourth Year Trade—Laying to line; constructing plain corners; kalsomining.

Freshman Class—Laying to line; use of hair and commercial cements; exercises in bond work with reference to headers and stretchers.

Sophomore Class—Concreting; flue and fire-place construction; common arches; lathing; plastering.

Junior Class—Line work for speed; projectional exercises; scaffolding exercises; window and door frame cutting; fancy arch work.

Senior Class—Line work for speed and neatness; plastering—special stress on white-coating and sand finishing; press brick exercises; superintending work.



Bricklaying Shop

Practical work is sometimes interrupted by weather conditions. In these cases talks are given on materials, estimates, contracting and other important subjects.

VII.—BROOM-MAKING. M. S. Sanders, Instr.

The course in broom-making is divided as follows:

FIRST YEAR TRADE CLASS.

Fall Term—Separating the insides from the hurls for brooms No. 0, separating No. 2 insides from No. 1 insides, grading the hurls and insides.

Winter Term—Separating the insides from the hurls for brooms No. 5 and separating No. 2 hurls from No. 3 hurls and sizing the insides and hurls.

Spring Term—Separating the insides from the hurls for brooms No. 4, cutting the hurls and separating the cutting from the hurls for brooms No. 3, bursting and separating the stems from the hurls.

SECOND YEAR TRADE CLASS.

Fall Term—Separating the No. 1 long hurl from No. 1 short hurl. Separating No. 1 long insides from No. 1 short insides. Separating No. 2 long hurl from No. 2 short hurl. Separating No. 2 long insides from No. 2 short insides.

Winter Term—Grading insides for whisks and toys. Grading, sizing, cutting, bursting and dyeing.

Spring Term—Sewing and bunching brooms Nos. 4, 5 and 6.

THIRD YEAR TRADE CLASS.

Fall Term—Making of brooms.

Winter Term—Making of brooms and brushes.

Spring Term—Making of brooms, brushes and toys.

FOURTH YEAR TRADE CLASS.

Fall Term—Making of brushes, toys and brooms.

Winter Term—Making of velvet caps for brooms, making of brushes and brooms.

Spring Term—Shop management and review of the whole trade.

VIII.—MACHINE SHOP. L. P. Byarm, Instr.

TRADE SCHOOL CLASS.

Vise work for the entire session leading to the first exercise in straight turning.

FRESHMAN AND SOPHOMORE.

Lathe work of all description. Making jack screws.

JUNIOR.

Fall Term—General repair work. Making jack screws. Machine designs.

Winter Term.—Designing nuts, bolts and screws.

Spring Term.—Gibs, cotters, bushings and glands. Designing gears.

The first year is spent in the blacksmith shop. There the student learns to forge and temper his tools and to work steel and wrought iron under the hammer. When the student comes into the machine shop he must bring with him two chisels and four lathe tools of his own forging.

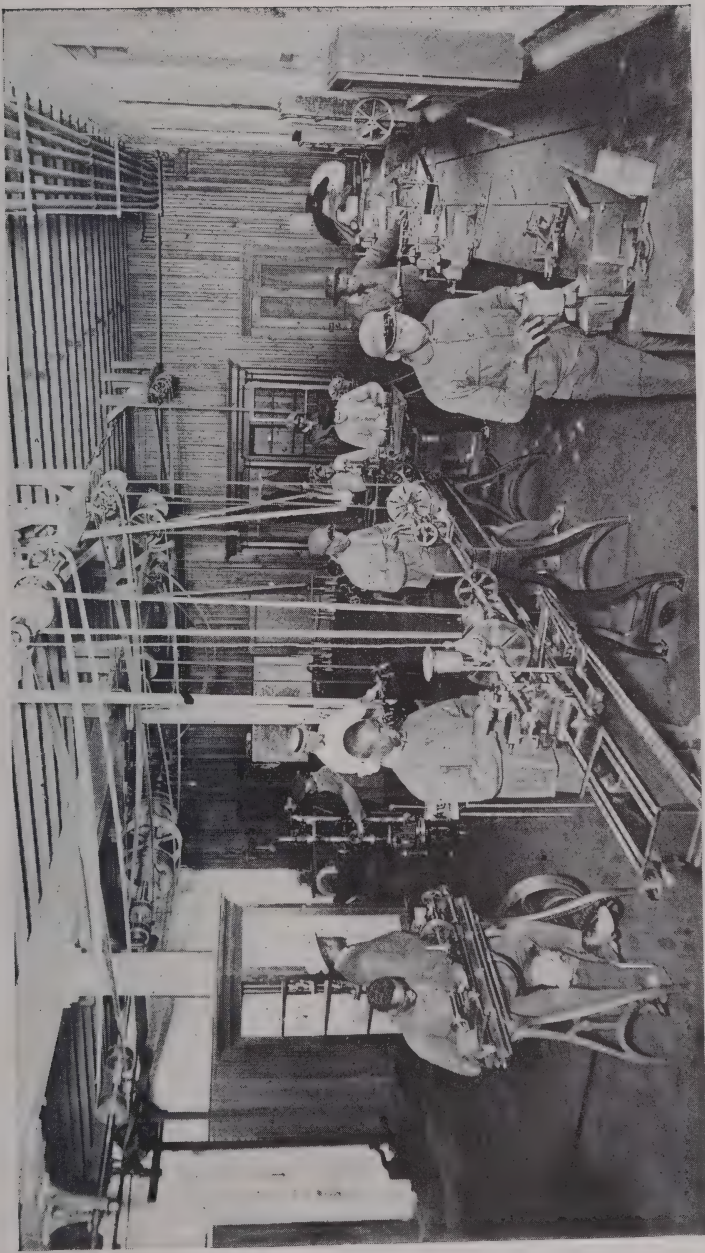
Practically the entire second year is taken up with bench work—chipping and filing to size different exercises as called for in the blue prints furnished. The chief aim is to attain accuracy in modeling and finishing work with hand tools. During the spring term straight turning in cast iron is begun.

The third year instruction is given in turning and boring the different metals used in machine construction—gear cutting; drilling; planning and laying out work.

All work turned out by the students must pass a rigid inspection.



Broom Shop



Machine Shop

ACADEMIC DEPARTMENT

James B. Dudley, President.

S. B. Jones, Director and Instructor in English and Physiology.

F. D. Bluford, Assistant in English.

Charles E. Stewart, Instructor in Music.

D. K. Cherry, Instructor in Mathematics.

W. F. Coleman, Instructor in History and Geography.

D. J. Jordan, in charge of Teachers' Training Course and Supervisor of the Night School.

Hamilton Clark, Instructor in English.

DESCRIPTION OF COURSES

ENGLISH.

The purpose of the course in English is to teach students to speak correctly, read with ease and intelligence, and to express their thoughts accurately and idiomatically in writing. For this reason oral composition figures largely in the course. Reading is carried through the four years. Especial emphasis is placed upon letter writing and short essays.

The work of the classes is arranged as follows:

FRESHMAN—F. D. Bluford, Instructor.

Fall Term—Advanced English Grammar. Detailed study of the parts of speech. Short themes.

Winter Term—Letter writing. Making of outlines. The short paragraph. Short themes.

Spring Term—Continuation of work of winter term. Review of grammar and composition. Short themes.

Text-book: *Emerson and Bender's Modern English Book II.*

SOPHOMORE—F. D. Bluford, Instructor.

Fall Term—The elements of rhetoric as applied to description, narration and the development of themes. Three themes each week. Material for composition will as far as possible be selected from the daily experience of the student in the various industries of the college.

Winter Term—The nature and development of the paragraph. The sentence from the viewpoint of rhetoric. Three themes each week.

Spring Term—The study and use of words. Important forms of prose. The figures of speech. Three themes each week.

Text-book: *Lockwood and Emerson's Rhetoric and Composition*.

JUNIOR—F. D. Bluford, Instructor.

Fall Term—The elements and qualities of style. Laws of debate. The production of reviews and arguments. Three themes each week.

Winter Term—The principles of rhetoric as found in the works of standard American authors. Three themes each week.

Spring Term—Continuation of the work of the winter term. Three themes each week.

Text-book: *Lockwood and Emerson's Rhetoric and Composition. American Literary Masterpieces*.

SENIOR.—S. B. Jones, Instructor.

Fall Term—The principles of argumentation. Weekly themes. The reading and study of American and English authors. Text-books will be used for reading, for practice in grammatical construction and as models of English composition. Themes on subjects connected with the various industries of the students will be required.

Winter Term—Continuation of the work of the fall term.

Spring Term—Completion of the work of the fall and win-

ter terms. Students will be required in addition to prepare a thesis in connection with some phase of the industrial work of the college.

FRESHMAN.

GENERAL HISTORY. S. B. Jones, Instructor.

Fall Term—Rise of the Germanic peoples. The effect of the Crusades on arts, science and commerce. Influence of Christianity in shaping the civilization of the Middle Ages. Current Events.

Winter Term—The Reformation in Europe. The period of absolute monarchy. The rise of democracy and the French and American Revolutions. Expansion of modern nations with special reference to the expansion of the United States. Current Events.

Spring Term—General Review. Current Events.

Text-book: *Myers' General History*.

SENIOR.

POLITICAL ECONOMY. S. B. Jones, Instructor.

Winter Term—The scope of the science of economics. The principles of economics as applied to land, labor and capital. The economy of spending and saving; organization of production; meaning of value.

Spring Term—Money, credit and banking. Distribution of the products of economic effort—wages and profits. Public finance.

Text-book: *Ely-Wicker's Principles of Economics*.

MATHEMATICS. D. K. Cherry, Instructor.

The mathematics in this department is clear and practical. The aim is to give each student sufficient mathematics to enable him without difficulty to make the scientific research and investigation required in both the agricultural and mechanical

departments. The following courses are offered: Algebra in the Freshman year; Plane Geometry in the Sophomore; Solid Geometry and Trigonometry in the Junior year; Surveying in the Senior year.

I.—ALGEBRA. Freshman.

Fall Term—General review. Special study of the equation. Simultaneous equations with graphical representation. Problems.

Winter Term—Involution and evolution. Theory of exponents. Radicals. Quadratic equations, with graphical representation. Problems.

Spring Term—Ratio and proportion. The progressions. The binomial theorem. Problems.

II.—PLANE GEOMETRY. Sophomore Year.

Fall Term—Geometric conceptions and magnitudes. The relation of Geometry to Algebra and Arithmetic. Simple constructions; angles and lines; geometry of the rectilinear figures. Book I.

Winter Term—Books II and III. The geometry of the circle will be followed by the geometry of similar polygons. Special attention will be given the similar triangle. The principle of stadia measurements will be explained. Application of the laws of proportion in similar polygons.

Spring Term—Books IV and V. Much attention will be given the geometry of areas. The principles of elementary surveying will be taught and actual field work will be done with simple hand-made instruments.

III.—SOLID GEOMETRY AND TRIGONOMETRY. Junior Year.

Fall Term—Lines and planes in space. The geometry of the pyramid, cone, sphere, etc.

Winter Term—Trigonometry. Scope and practical applica-



Library

tions of trigonometry. Functions of angles. Logarithms. Solution of right triangles.

Spring Term—The oblique triangle. Areas of triangles. Practical applications.

IV.—SURVEYING. Senior Year.

Fall Term—Study is made of the use and care of instruments. Practical problems are worked out in the classroom and given immediate application. Copies of deeds are secured from which surveys are made. Practice is given in stadia measurements, and topographical drawings are made of plots and fields in the vicinity of the school.

Text-books: *Durell's School Algebra*; *Durell's Plane and Solid Geometry*; *Durell's Trigonometry and Surveying*.

TRADE SCHOOL COURSE

FIRST YEAR TRADE.

NORTH CAROLINA HISTORY. Hamilton Clark, Instructor.

The State history is studied to give the students such a knowledge of the development of the State in order to enable them to understand better our present age of progress, and with a view that it may arouse a greater love for the State.

A mastery of the chief facts of history is required, but they are studied as landmarks in great movements and not as isolated facts, to the end that a sense of the unity and continuity of history may be preserved.

Fall Term—The beginning of North Carolina history. The settlement and developing of North Carolina.

Winter Term—A study of the governors of North Carolina and their work before the Revolution and after.

Spring Term—The present day history of North Carolina.

A close study of the progress made in North Carolina from the time of the Revolution to the present day.

Text-book: *Hill's Young People's History of North Carolina.*

ENGLISH. Pres. J. B. Dudley and Hamilton Clark, Instructors.

"Power to understand rightly and to use critically the mother tongue is the flower of all education."—Charles Eliot.

The aim of the work in English is to train pupils to speak clearly and fluently and to write with accuracy of form and with facility.

Fall Term—The study of the sentence. Especial attention is given to the analysis and diagramming of simple sentences. Reproduction of written and oral stories with a view of giving practice in spelling, punctuation, the use of capital letters and calling attention to the form of paragraphing.

Winter Term—Letter writing. Reproduction of stories continued. Parsing. Parts of speech.

Spring Term—Study of the parts of speech. Their relation in a sentence. Letter writing continued.

Text-book: *Emerson and Bender's Modern English Book I.*

FIRST YEAR TRADE.

READING. W. F. Coleman, Instructor.

The aim of this course is to train the discriminating power, express activity, strengthen the moral sentiment and memory, and establish the capacity for intelligent, fluent reading in the student. Great pains are taken to secure alluring and instructive reading without sacrificing simplicity of thought and expression.

Text-books: *Baker-Carpenter Series.*

FIRST YEAR TRADE.

GEOGRAPHY. W. F. Coleman, Instructor.

Fall Term—The first part of the year's work is local and is

based on the observation of the student. (a) Direction, distance, color, form; (b) Weather charts.

Winter Term—The work for this and the following term is foreign and depends upon the imagination of the student. It is stimulated by pictures, stories, vivid descriptions and a set of geographical charts recently purchased by the college.

(a) Conception of the world as a whole;

(b) Different types of people;

(c) Imaginary excursions.

Spring Term—Local occupations.

Text-book: *Dodge's Primary Geography*.

FIRST YEAR TRADE.

ARITHMETIC. D. J. Jordan, Instructor.

Fall Term—Review of the four fundamental operations with numbers consisting of as many as eight figures. Cancellation. Reading, writing, and reduction of simple fractions. Addition and subtraction of fractions.

Winter Term—Review of all previous work; multiplication and division of fractions; miscellaneous practical problems illustrating the use of principles learned; reduction of complex fractions.

Spring Term—Thorough review of the work of the fall and winter terms; fractional relations; aliquot parts of 100.

Text-books: *Noble and Stevens' Primary Arithmetic*; *Milne's Arithmetic, Book III*.

FIRST YEAR TRADE.

MUSIC. Charles E. Stewart, Instructor.

Fall Term—Study of the simple rudiments of music, such as the staff, the notes, the rests. Rote singing for the voice and ear.

Winter Term—Practice in the writing of notes and signs. Begin a study of the keys and reading. Elementary sight singing.

Spring Term—How to sing in the key of “C.” Study of simple melodies in the easy keys. Sight singing and ear training.

SECOND YEAR TRADE.

ENGLISH. F. D. Bluford, Instructor.

Fall Term—Review of the first year's work. The study of parts of speech continued. Oral and written compositions.

Winter Term—The structure of the sentence. Subject, predicate, modifiers, complements, oral and written compositions.

Spring Term—Analysis of compound and complex sentences. Oral and written compositions.

Text-book: *Modern English Book II. (Emerson and Bender)*

SECOND YEAR TRADE.

U. S. HISTORY. W. F. Coleman, Instructor.

The chief epochs and crises showing growth and natural development will be studied to encourage and strengthen the sentiment of patriotism.

Fall Term—Condition of Europe in the 15th century. Period of discovery.

Winter Term—Settlement of the Thirteen Colonies. Colonial wars. Great westward movement.

Spring Term—Period of the Revolution. Critical Period. Making of the Republic.

Text-book: *Our Republic (Chandler)*.

SECOND YEAR TRADE.

GEOGRAPHY. W. F. Coleman, Instructor.

Fall Term—Principles of geography. Geography of the United States, Dominion of Canada, Mexico.

Winter Term—Trade and navigation. South America, Europe, Asia, Africa.

Spring Term—Australia, Philippine Islands, Oceania. General Review.

Text-book: *Dodge's Comparative Géography*.

SECOND YEAR TRADE.

READING. W. F. Coleman, Instructor.

The aim of this course is to train the discriminating power, express activity, strengthen the moral sentiment and memory, and establish the capacity for intelligent, fluent reading in the student. Great pains are taken to secure alluring and instructive reading without sacrificing simplicity of thought and expression.

Text-books: *Baker-Carpenter Series*.

SECOND YEAR TRADE.

FREEHAND DRAWING. W. F. Coleman, Instructor.

Fall Term—Autumn leaves, branches, trees. Pencil painting. Calendar making.

Winter Term—Story illustration. Construction work.

Spring Term—Budding twigs; flower painting; landscape.

SECOND YEAR TRADE.

ARITHMETIC. D. J. Jordan, Instructor.

Fall Term—Review of fractions; analysis of problems; miscellaneous problems.

Winter Term—Denominate numbers; longitude and time; reviews.

Spring Term—Metric system; practical measurements; temperature, lumber, roofing, flooring, plastering, painting, papering, and carpeting; miscellaneous review problems.

SECOND YEAR TRADE.

MUSIC. Charles E. Stewart, Instructor.

Fall Term—Physiological construction of the singing ap-

paratus and the functions of the different parts. Written and drawn work. Study of the keys of "C" and "G."

Winter Term—Unison singing of simple melodies. Study of the keys of "C," "G," "D," "A." Sight singing and reading exercises.

Spring Term—Duet singing from sight work. Study of the tone work in voice production.

THIRD YEAR TRADE.

ENGLISH. Hamilton Clark, Instructor.

Fall Term—Review of the parts of speech. The study of the sentence. Oral and written composition.

Winter Term—Composition continued. Analysis and diagramming of sentences. Letter writing.

Spring Term—Letter writing and composition continued. Parsing.

Text-book: *Emerson and Bender's Modern English Book II.*

THIRD YEAR TRADE.

UNITED STATES HISTORY. W. F. Coleman, Instructor.

Fall Term—War of the Secession.

Winter Term—Period of Development.

Spring Term—Period of Development (continued). General review. Historical discussions from the newspapers.

Text-book: *Chandler's Our Republic.*

THIRD YEAR TRADE.

PHYSICAL GEOGRAPHY. W. F. Coleman, Instructor.

Fall Term—The earth as a globe. The atmosphere. The ocean. Shore lines.

Winter Term—The land; planes and plateaus; mountains; volcanoes.

Spring Term—River valleys; glaciers and deserts; distribution of plants, animals and man.

Text-book: *Davies' Physical Geography.*

THIRD YEAR TRADE.

PHYSIOLOGY AND HYGIENE. S. B. Jones, Instructor.

The aim of this course is to teach the student to understand the elementary functions of the body so that he may apply this knowledge to the practical safeguarding of his own health and that of his community.

Fall Term—The Physiology of Bone, Muscle, Foods and Digestion.

Winter Term—The Physiology of the Circulation, Respiration, Skin and Nervous System.

Spring Term—Elementary Hygiene. Bacteria and their Relation to Man. Preventable Diseases. Personal Hygiene. The Sanitation of the Home.

Text-books: *Lippincott's Physiology Book III*; *Ritchie's Primer of Sanitation*.

THIRD YEAR TRADE.

FREEHAND DRAWING. W. F. Coleman, Instructor.

Fall Term—Autumn growths—grasses, weeds, sedges, seed pods; landscapes; perspective.

Winter Term—Decorative treatment—treatment that does not seek to express fact or reality, but aims to express arrangement of lines, masses, or color whether from natural or abstract motives in accordance with the principles of design. Book designs, stencil designs, programme designs, portfolios.

Spring Term—Spring flowers; animal drawing; still life drawing.

THIRD YEAR TRADE.

ARITHMETIC. D. J. Jordan, Instructor.

Fall Term—Rapid review of previous work; percentage and all of its applications.

Winter Term—Interest—simple, compound and annual; promissory notes; banking; exchange.

Spring Term—Stocks and bonds; ratio and proportion; powers and roots; mensuration; general review.

THIRD YEAR TRADE.

MUSIC. Charles E. Stewart, Instructor.

Fall Term—Study of and sight reading in the keys of "C," "F," "Bb," "Eb," "Ab," "Db." Singing and reading exercises.

Winter Term—Singing and reading exercises and tone work.

Spring Term—Sight singing in the various keys studied. Quartette and chorus work.

FOURTH YEAR TRADE.

ENGLISH. Hamilton Clark, Instructor.

Fall Term—Review of the sentence. Advanced study of the sentence.

Winter Term—Analyzing and diagramming different sentences, clauses and phrases. Composition.

Spring Term—Sentence study continued. Letter writing and composition. Special emphasis is laid on purely business English.

Text-book: *Emerson and Bender's Modern English Book II.*

FOURTH YEAR TRADE.

CIVICS. Hamilton Clark, Instructor.

"The ideal citizen is the man who believes that all men are brothers, and that the nation is merely an extension of his family, to be loved, respected and cared for accordingly."—Haberberton.

The chief aim of the instruction in civics is to train the student for intelligent and conscientious participation in civic activities.

The pupils are urged to watch the daily newspapers for items of practical interest. A record of these items and their

own observations is kept in a note-book and furnishes concrete illustration to the general descriptions of the text-book.

The student is encouraged to visit charitable, penal and educational institutions, established and maintained by the commonwealth in order that he may more thoroughly understand the responsibilities and obligations devolving upon the citizen.

Fall Term—Fundamental principles of civil government. Formation of the government of North Carolina.

Winter Term—Study of the government of North Carolina in operation.

Spring Term—Qualifications, rights and duties and responsibilities of citizenship.

Text-book: *Peele's Civil Government*.

FOURTH YEAR TRADE.

FREEHAND DRAWING. Hamilton Clark, Instructor.

Fall Term—Expressing simple forms by lines. Study of the position and proportion of figures. Pictorial work. Especial attention is given to characteristic sketches for each month.

Winter Term—Pictorial work continued. Design; decorative and constructive design.

Spring Term—Pictorial work continued. Out-of-door study; pencil and water color work. Plant study.

FOURTH YEAR TRADE.

ALGEBRA. D. J. Jordan, Instructor.

Fall Term—Review of the most important topics in arithmetic; elementary algebra; symbols and fundamental principles; solution of simple equations and problems; negative numbers; addition and subtraction of algebraic expressions, parentheses.

Winter Term—Review of previous work. Multiplication and division of algebraic expressions; solution of equations; abbreviated methods in multiplication and division.

Spring Term—Factoring; highest common factors and low-

least common multiple; fractions and processes with fractions; fractional and literal equations. Reviews.

Text-book: *Durell's School Algebra*; *Milne's Arithmetic Book III*.

FOURTH YEAR TRADE.

MUSIC. C. E. Stewart, Instructor.

Fall Term—General review of the major keys, sight singing, written work.

Winter Term—Duet, quartette and chorus work. Individual work before the class.

Spring Term—General review of the Trades School work, making drawings of the vocal organs and drawings of musical features. Sight singing and tone work.

FOURTH YEAR TRADE.

BOOKKEEPING. M. Goins, Instructor.

Fall Term—Double Entry—Study of Debits and Credits, Study of the various accounts, Capital, Cash, Merchandise, Personal, Profit and Loss, Journal, Ledger and Trial Balance Books, Balancing and Closing of Accounts. Commercial Correspondence—Study of Business Papers and Letters, Modes and Forms of Expressions, Instruction as to Filing Letters and Papers.

Winter Term—Posting, Ruling, Balance Sheet, Passbook, Writing Checks, Closing Ledger, Partnership, Exercises in Commercial Correspondence.

Spring Term—Closing out of a Business. Resources and Liabilities, Commercial Law and Business Papers. Contracts—Construction, Arrangements, Essential Elements, Persons Competent to Make Contracts. Partnership—Advantages and Disadvantages, Rights, Duties. Corporations—Powers and Liabilities, Advantages, Formation, Laws Governing Them. Agency—How Created; Principal—His Duties, Rights and Liabilities; Agent—His Duties, Rights and Liabilities. Ne-



Conference of Intercollegiate Athletic Association

gotiable Papers—Notes, Bonds, Money Orders, Drafts, Endorsements, Protest, Duties of Holder. Legal Papers—Deeds, Deeds of Trust, Mortgages, General Principles governing same.

Text-book for Bookkeeping: *The Twentieth Century Bookkeeping and Office Practice*. J. W. Baker, Knoxville, Tenn. *Practical Law*. Ellis Publishing Co.

FOURTH YEAR TRADE.

GENERAL HISTORY. S. B. Jones, Instructor.

Fall Term—Ancient History—contributions to modern civilization of Egyptians, Assyrians and Babylonians, Hebrews and Phoenicians.

Winter Term—The story of the Greek people. How they saved Europe to democracy. Influence of Greek civilization upon the life of modern nations.

Fall Term—The rise of Rome. Influence of Rome on the modern world.

Text-book: *Myers' General History*.

MUSIC—CHAS. E. STEWART, Director.

The work in music is a practical study beginning with the rudimentary elements and moving progressively through the course as outlined in the New Educational Music Course. This work, however, is supplemented by much work of value to the students. The A. and M. College Choral Club is an organization for the study and rendition of musical works and gives very excellent opportunity for practice and study.

The A. and M. College Band affords opportunity for those wishing to be actively engaged in the study of the wind instruments while the orchestra appeals to those interested in the study of the stringed instruments. Young men wishing to join any of these organizations must be at the school and ready for work as soon as possible in the early part of the Fall Term,

as the band and orchestra cannot accept performers after this time unless by special arrangement.

Those contemplating buying orchestral or band instruments with the intention of joining the band or orchestra should consult the instructor before doing so. All members of the band must be uniformed.

Those wishing to make a special study of the piano, or voice will be given opportunity to do so at small cost.

COLLEGE CLASSES—FRESHMEN.

Fall Term—Study of one, two, three, and four part singing. Careful study of rhythm as applied to chorus work.

Winter Term—Practical completion of the circle of keys in the major. Practical exercise work.

Spring Term—Completion of the major keys. Sight singing exercises. Practical voice exercises.

SOPHOMORES.

Fall Term—Beginning of the study of the Minor Mode.

Winter Term—Practical exercises, ear training, chorus work.

Spring Term—Development of the minor modes; exercises and chorus work.

JUNIORS.

Fall Term—Quartette and chorus work and work for the development of tone.

Winter Term—Practical singing throughout the term.

Spring Term—General review of the work. Practical work in all the keys.

SENIORS.

Fall Term—Singing exercises and biographical sketches of musicians of note.

Winter Term—Lectures on the history of music, singing exercises.

Spring Term—Study of the orchestra, band, choir.

NIGHT SCHOOL—D. J. JORDAN, Supervisor.

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best that the conditions will permit will be given, and students attending the night school may eventually arrange to enter the day school. Courses completed in the night school receive the same credit as if completed in the day school.

It is especially desirous that the young men of the city who are employed during the day will avail themselves of this opportunity.

To enter the night school, the applicant should be sixteen years of age, and he should first secure work. This may be done by sending written application immediately to The President, A. & M. College, Greensboro, N. C.

ROSTER OF NIGHT SCHOOL

Days	7—8	8—8.30	8.30—9	9—9.30
Monday.....	Arithmetic...	English.....	U. S. or N. C. History.....	Writing....
Tuesday.....	Arithmetic...	English.....	Geography....	Reading and Spelling..
Wednesday....	Arithmetic...	English.....	U. S. or N. C. History.....	Writing....
Thursday.....	Arithmetic...	English.....	Geography....	Reading and Spelling..
Saturday.....	Arithmetic...	English.....	U. S. or N. C. History.....	Writing....

TEACHERS' TRAINING COURSE—D. J. JORDAN, Director.

PURPOSE.—The demand for better prepared teachers is well-nigh universal, and is constantly increasing in force. Nowhere is the need more strongly felt or the call more urgent than in the country districts, where the majority of Negroes live. Good schools in a community attract a better class of laborers and do much towards bringing contentment, peace and consequent prosperity to those already there.

To meet this demand and to afford teachers who desire to prepare themselves thoroughly for their task, an opportunity to do so under most favorable conditions, this course has been established.

EXTENT OF THE COURSE.—At present the course requires one year of residence work in the subjects indicated below, but will be extended and improved from time to time as may be found necessary.

ADMISSION.—Graduates of the A. & M. College, the State Normal Schools at Winston-Salem, Fayetteville and Elizabeth City, and of schools of similar or higher grade, will be admitted without examination. Men already engaged in teaching, but who are not graduates of accredited schools, may be admitted to the course under certain conditions and allowed to make up the work in which they may be deficient.

BENEFITS.—Students in this course will be permitted to share in the large opportunities and advantages offered in our well-equipped laboratories and work shops. Opportunities for practical teaching under competent direction are offered in the Night School.

It is intended to make the work so thorough and practical in every way as to deserve and receive the endorsement of the school authorities of North Carolina and elsewhere.

DIPLOMA.—An appropriate certificate will be given those who satisfactorily complete the course.

COURSES OF STUDY.

Fall Term—

EDUCATIONAL PSYCHOLOGY.—This is an elementary course in Psychology designed to be fundamental to the other courses, being a study of the laws of mental action and growth upon which the principles of teaching are based. Text-book: *Betts' "The Mind and Its Education,"* and lectures.

THE HISTORY OF EDUCATION.—A course in the study of educational theories and progress among the most important peoples from pre-Christian times to the present, and includes biographical sketches of some of the leading educational reformers. Text-book: *Painter's "A History of Education,"* and lectures.

Winter Term—

THE PRINCIPLES OF EDUCATIONAL PRACTICE.—A thorough study of the several phases and aspects of education and their relations to psychological and sociological principles. Text-book: *Klapper's "Principles of Educational Practice,"*

SCHOOL ORGANIZATION AND MANAGEMENT.—This course offers a comprehensive study of the principles that underlie the organization and conduct of school-room affairs so as to secure the best results in comfort, health, good order, obedience to authority, and character development. *Bagley's "Class Room Management,"* and lectures.

Spring Term—

ELEMENTARY PEDAGOGY.—A course which includes a clear and concise statement of the several teaching processes, the principles upon which they are based, their educational values and practical application in the every-day work of the class room. Text-book: *White's "Elements of Pedagogy,"* and lectures.

CHILD STUDY.—A study of the conditions and needs of chil-

dren in their development and growth. Text-book: *Dinsmore's "The Training of Children,"* and lectures.

Fall, Winter and Spring Terms—

MANUAL TRAINING.—Each student will be expected to take some one of the several industries taught at the college, and those who have not taken such work before will be required to do so as a pre-requisite to graduation. There is a great demand for teachers who can introduce manual training in their schools, and this course is offered to meet this demand.

PRACTICE TEACHING.—Throughout the session students will be required to teach, under proper direction, at least one class in our Night School.

NATURE STUDY.—A study of the more common and familiar objects of nature, such as animals, insects, plants, soils, stones, etc., with the purpose of preparing the student to helpfully and interestingly conduct Nature Study classes of young children. At first, emphasis will be laid on object lessons and drawings; but later, greater stress will be placed upon the more fundamental facts of the objects studied.

REVIEWS.—These reviews will be principally in Arithmetic, Grammar, Geography, History, Composition and Reading, the purpose being two-fold: (1) Better to prepare the student for passing the public school examinations, and (2) to illustrate good methods in teaching such subjects.

REQUIRED READING.—The following text-books are required to be read and reported upon by the students:

"Theory and Practice of Teaching"—*Page*.

"Human Behavior"—*Colvin and Bagley*.

"Teaching a District School"—*Dinsmore*.

"The Teacher and the School"—*Colgrove*.

"School Management"—*Dutton*.

"The Art of Teaching"—*White*.

Also the educational journals and magazines that come to our reading room.

LIST OF GRADUATES.

1899.

"No steps backwards."

- Cheek, W. T. C., B. S., State Normal School, Instructor in
 Carpentry Winston, N. C.
 Cunningham, I. C., B. S., M. D., Physician.....Owensboro, Ky.
 Curtis, A. W., B. Agr., M. S. A., Head of Department of Agriculture,
 West Virginia Col. Institute.....Institute, W. Va.
 Falkener, E. L., B. Agr., Farmer.....Warrenton, N. C.
 Joyner, J. M., B. Agr., Postoffice Clerk..care Clerks' Box C,
 Philadelphia, Pa.
 *Robinson, P. E. Raleigh, N. C.
 *Watson, A. Greensboro, N. C.

1900.

"By our efforts we rise."

- *Best, C. H. Grove Hill, N. C.
 Green, J. H., M. S. Wilmington, N. C.
 Moore, R. D., B. Agr., Postal Clerk.....Wilmington, N. C.
 Neal, J. P., B. S.....1119 G St., N. E., Washington, D. C.
 Plummer, E. S., B. S., Mechanic..35 West 21st Street, New York City
 *Quick, J. R. Laurinburg, N. C.
 Robinson, Chas., B. S., Official Photographer..Tuskegee Institute, Ala.

1901.

"Fortune favors the brave."

- Colson, E. F., B. Agr., Instru. in Agr. J. K. Brick Sch..Enfield, N. C.
 Edwards, G. A., M. S., Teacher, Manual Training, Shaw
 University Raleigh, N. C.
 Grimes, Frances T., B. S.....54 Mountain St., Asheville, N. C.

1902.

"After the contest, victory."

- Bullock, Mrs. H. A., B. S., Housekeeper.....Greensboro, N. C.
 Henderson, A. P., B. Agr.....3018 State Street, Chicago, Ill.
 Hepler, T. H., B. Agr.
 Holcome, A. J. P., B. Agr. Raleigh, N. C.
 Garrett, Mrs. F. E., Teacher Greensboro, N. C.

Mebane, A. L., B. Agr., M. S. A., Teacher of Dairying, A. & M.

College Greensboro, N. C.
 Quinn, Wm., B. S., Mechanic, D. & B. Institute.....Raleigh, N. C.
 White, W. A., B. Agr.

1903.

"More beyond."

Alexander, W. G., B. S., Engineer.....422 Elton St., Brooklyn, N. Y.
 Amey, Chas. G., B. S., Manager Durham Textile Mills..Durham, N. C.
 Burnett, A. C., B. Agr., Teacher Agr. Lincoln Inst....Simpsonville, Ky.
 Forney, H. G., B. Agr., Agriculturist, J. K. Brick School..Enfield, N. C.
 Haywood, Burke, B. S., Mechanic.
 Holmes, J. W., B. S., Architect, St. Augustine School....Raleigh, N. C.
 Hunter, C. C., B. Agr.West Raleigh, N. C.
 Jefferson, C. B., B. S.Warrenton, N. C.
 McLendon, J. R., B. S.
 Robinson, R. R., B. Agr., Instructor.....Tuskegee Institute, Ala.
 Robinson, W. F., B. Agr., Asst. Florist.....Tuskegee Institute, Ala.
 Yores, Edward, B. S.824 N. 13th St., Philadelphia, Pa.

1904.

"Through the dust to the stars."

Chance, W. C., B. Agr., Pres. Pamele Industrial Institute.Parme, N. C.
 Edward, W. T., B. S., 607 Lincoln St., Wilmington, Del.(Siler City,N.C.)
 Greenlee, Percy C., B. Agr.....111 Foot St., New Haven, Conn.
 Jones, L. A., B. Agr.Rocky Point, N. C.
 Oldham, A. A., B. S., Architect.....Chestnut St., Greensboro, N. C.
 Ramseur, L. L., B. Agr., Teacher.....Newton, N. C.
 *Reaves, W. V.Glendon, N. C.

1905.

"Thus ends our first lesson."

Hooper, L. B., B. S...U. S. S. Des Moines, care Postmaster,
 New York City
 Johnson, J. I., B. Agr., Dairyman.....Detroit, Mich.
 Lamb, W. M., B. Agr., Dairyman.....Charles City Court House, Va.
 Richie, E. W., B. S. (Howard Uni)..25 Wolwick St., Spartanburg, S. C.
 Turner, R. R., B. S., TinnerWest Raleigh, N. C.
 Watson, P. P., B. S.High Point N. & I. School, High Point, N. C.

Specials.

Jones, G. W., Carpenter.....Mebane, N. C.
 Prather, E. A.Hayti St., Raleigh, N. C.

1906.

"Our Aim Victory."

Ford, I. R., B. S., ManufacturerGreensboro, N. C.
 Greenlee, N. B., B. Agr., Howard Univ.....Washington, D. C.
 Hawkins, J. A., B. S., Mechanic.....Fayetteville, N. C.
 Johnson, W. T., B. Agr.....Hodge street, Greensboro, N. C.
 McRae, S. D., B. Agr., Principal Graded School.....Sanford, N. C.
 Rand, John Milton, B. Agr.....West Raleigh, N. C.
 Stewart, Needham, B. Agr., Dairyman..520 W. Market St., Greensboro

Special, With Short Course Certificates.

Baldwin, M. L., Rev.Wilmington, N. C.
 Lee, Jas. A.Thomasville, N. C.
 Faduma, Orishatukeh, Rev., Instructor N. R. T. School..Durham, N. C.

1907.

"Climb tho' the rock be rugged."

Caesar, Robert, B. Agr., Stonecutter.....Mount Airy, N. C.
 Carter, O. H., B. Agri., Farmer.....Route No. 1, Fayetteville, N. C.
 Donnell, Clyde, B. Agr., Med. Student, Harv. Univ., Cambridge, Mass.
 Davis, Chas. G., B. S., Teacher of Manual Training, Normal
 SchoolHenderson, N. C.
 Keck, William, B. Agr., Teacher.....Guilford County, N. C.
 Rivera, T. A., B. Agr., Bookkeeper....Fayetteville St., Durham, N. C.
 Scott, Chas. A., B. Agr., Contractor....520 Spruce St., Goldsboro, N. C.
 Smith, Edward, B. S.....911 E. Market St., Greensboro, N. C.
 Truman, J. C., B. S.826 Nebraska Ave., Kansas City, Kansas
 Williams, M. W., B. Agr., Teacher.....Halifax, N. C.

Special.

*Leach, ThomasPittsboro, N. C.

1908.

"Lifting as we climb."

Alston, A. J., B. Agr.Arcola, N. C.
 Bailey, N. A., B. Agr., U. S. Farm Demonstrator, A. & M.
 College Greensboro, N. C.
 Baldwin, Seaton, B. S.Durham, N. C.
 Cotton, Samuel, B. S.
 Darden, A. N., B. Agr.....110 Pender St., Wilson, N. C.
 Flow, Baxter D., B. Agr.care Eagle's Drug Store, Charlotte, N. C.
 Foster, Chas. L., B. S., Teacher of Blacksmithing, A. & M.
 College Greensboro, N. C.

Harrison, M. L., B. S., Blacksmith.....R. F. D. 2, Yorkville, S. C.
 Harrison, R. H., B. S., Blacksmith.....R. F. D. 2, Yorkville, S. C.
 Johnson, Enoch J., B. Agr.....Chester, S. C.
 Lamb, J. L., B. S., TeacherBox 26, Fentress, Va.
 McGimpsey, J. R., B. Agr.....Verbank Farm Sch., Verbank, N. Y.
 Merrick, Edward R., B. Agr...care N. C. Mutual Ins. Co., Savannah, Ga.
 *Powell, Wylie, B. Agr.....Wilson, N. C.
 Reid, Chas. B., B. Agr.Box 133, Wadesboro, N. C.
 Smith, John H., B. Agr., Teacher of Agriculture, Voorhees Industrial
 School Denmark, S. C.
 Spaulding, John W., B. S., Bricklayer..1000 Twentieth St., N. W.
 Washington, D. C.

Special.

Holmes, W. H.Goldston, N. C.

1909.

"Service, Our Mission."

Barnes, B. W., B. Agr., Registrar A. & M. College....Greensboro, N. C.
 Berry, Richard, B. Agr., Bookkeeper.....Box 63, Laurinburg, N. C.
 Crawford, J. L., B. S., Meharry Med. College.....Nashville, Tenn.
 Davis, C. J., B. Agr., TeacherPolkton, N. C.
 Davis, J. H., B. Agr.....Tarboro, N. C.
 Evans, Edward, B. S., Stu. Howard Uni.....Washington, D. C.
 Gill, Jas. C., B. Agr., Teacher of Agriculture.....Camp Nelson, Ky.
 Mabery, Samuel, B. S., Mechanic.....Catawba, N. C.
 Markham, W. H., B. S. Drug Clerk.....Durham, N. C.
 Mask, J. D., B. S., Teacher Manual Training.....Sedalia, N. C.
 Mitchell, John W., B. Agr., State Nor. School.....Fayetteville, N. C.
 Nelson, Fer. D., B. S., Bricklayer.....Pittsburgh, Pa.
 Price, P. B., B. Agr., Bookkeeper.....Box 63, Laurinburg, N. C.
 Webb, H. E., B. Agr., Farmer.....Mebane, N. C.
 Wray, John D., B. Agr., Farm Supt., A. & M. Col., Greensboro, N. C.
 Waugh, George, B. Agr.....Route No. 4, Greensboro, N. C.
 Wilkins, J. W., B. Agr.....213 Coutts St., Richmond, Va.

Two-Year Course Certificates.

Ingram, W. H., FarmerAnsonville, N. C.
 Jordan, J. F., Farmer..... Guilford

1910.

"Deeds, Not Words."

Bunn, Roger Edgar, B. Agr., Student Howard Uni., Washington, D. C.

Dixon, Cornelius Vanderbilt, Student, Meharry Med. Col.,
Nashville, Tenn.
Johnson, Alonzo Bernard, B. Agr., Teacher of Agriculture,
McKinley InstituteMeadville, Va.
Lawrence, Cephas Warrick, B. Agr., Student, Lincoln University, Pa.
*Lewis, Needham Roscoe..... Selma, N. C.

Two-Year Course Certificates.

Waugh, Sterling Thomas, Truck Farmer..R. No. 4, Greensboro, N. C.

1911.

"Life is What We Make It."

Bryant, W. H., B. S. A., Med. Student, Shaw Univ.....Raleigh, N. C.
Byarm, L. P., B. S. M., Instructor, A. & M. College, Greensboro, N. C.
Busbee, R. L., B. S. A., Student Howard Univ.....Washington, D. C.
Mask, J. W., B. S. M., Teacher of Manual Training, Colored
Graded SchoolWashington, N. C.
Moseley, Welton, B. S. A., Student Howard Univ., Washington, D. C.
Sanders, M. S., B. S. M., Teacher of Broom-making, A. & M.
College Greensboro, N. C.
Slade, S. W. R., B. S. A., Farmer.....Knightdale, N. C.
Williams, F. B., B. S. A., Truck Farmer, 608 Beaver St.
Jacksonville, Fla.

1912.

"Conquering and to Conquer."

Brooks, Samuel T., B. S. A., Floriculturist.....Greensboro, N. C.
Guess, William H., B. S. A.....223 Vine Street, Goldsboro, N. C.
Holden, Percy S., B. S. M., Student Howard Uni., Washington, D. C.
McConnell, William I., B. S. A.....Greensboro, N. C.
Pope, J. Israel, B. S. M., in charge of the heating system,
A. & M. CollegeGreensboro, N. C.
Shuford, James S., B. S. M., Plasterer, 509 Arredonda St.,
Gainesville, Fla.
Wharton, Fletcher Decatur, B. S. A., Asst. Instructor in Market
Gardening, A. & M. CollegeGreensboro, N. C.

* Deceased.

GRADUATES OF THE PREPARATORY DEPARTMENT.

Class of 1900.

Alston, Sarah V. (Miss)	Raleigh, N. C.
Carter, Alma J. (Miss) Teacher	Reidsville, N. C.
Colley, J. C.	Durham, N. C.
Cotton, Lillian (Miss)	Chester, S. C.
*Davis, L. E.	Wilmington, N. C.
Davis, Mary O. (Miss)	Hillsdale, N. C.
Davis, R. T.	Wilmington, N. C.
*Dudley, S. Inez (Miss)	Greensboro, N. C.
Dunham, P. Wm.	Euloria, S. C.
Farrington, Bertha (Miss)	Greensboro, N. C.
Hooper, T. H.	Winston, N. C.
Jeffreys, Annie F. (Miss)	Petersburg, Va.
Jones, Estella D. (Miss)	Chapel Hill, N. C.
McKenzie, Sara P. (Miss) Teacher	Greensboro, N. C.
Pritchett, Nannie L. (Miss)	Greensboro, N. C.
*Quick, Knox S.	Laurinburg, N. C.
Richardson, M. L. (Miss)	Wilmington, N. C.
Simmons, Victor W.	Statesville, N. C.
Strong, Andrew J., M. D., Physician	Norfolk, Va.
Willis, Josie H. (Miss)	Wilmington, N. C.
Wilson, Lillie B. (Miss)	Hillsboro, N. C.
Witherspoon, Annie F. (Miss)	Greenville, N. C.
Wooten, David	Princeville, N. C.
Wright, Annie C.	Danville, Va.

Class of 1901.

Gwyn, Cecil B. (Miss)	Greensboro, N. C.
*Jones, Georgia (Miss)	Raleigh, N. C.
Jackson, N. E., M. D., Physician	Laurinburg, N. C.
Logan, Erkwod	Gale, N. C.
*Lipscombe, Hattie B. (Miss)	Newport News, Va.
Mapp, Sadie (Miss)	Philadelphia, Pa.
Palmer, Dinah (Miss)	Church Hill, N. C.
*Reaves, W. V.	Greensboro, N. C.
Rankin, A. E.	Greensboro, N. C.
Reynolds, Mattie (Miss)	Waynesville, N. C.
Watson, Della A. (Miss)	Grove Hill, N. C.

* Deceased.

N. B.—In order that this list may be kept accurately, graduates are requested to inform the President of any change in address, vocation, etc.

SCHOLARSHIPS AND PRIZES FOR 1913-'14.

The Odell Hardware Company, of Greensboro, N. C., offers a prize of a five dollar set of fine tools to the Senior having the highest rank in the Mechanical Department.

Mr. J. A. Hawkins, class of '06, offers a medal to the student holding the best record for scholarship, practical work and good conduct, in the Mechanical Department, for a period of four years.

LIST OF STUDENTS TRADE SCHOOL CLASSES.

First Year Trade School Class.

Alexander, Clarence	Guilford County
Alexander, Howard	Guilford County
Armstrong, Claud	Gaston County
Barber, Daniel	Cabarrus County
Barber, William S.	Gaston County
Best, Charles Jefferson	Pamlico County
Best, James R.	Pamlico County
Blue, David B.	Hoke County
Blue, Mitchell	Montgomery County
Blue, William McKinley	Hoke County
Broadhurst, K. E.	Wayne County
Broadnax, Raymond	Rockingham County
Burgess, Nathaniel	Wake County
Clark, Norman M.	Guilford County
Clement, Troy	Davie County
Cooper, Richmond	Greene County
Coley, David Henry	Wayne County
Couch, Charles	Orange County
Covington, John	Richmond County
Craig, Charles C.	Orange County
Davidson, Arthur	Cabarrus County
Daye, Clarence	Isle of Wight County, Va.
De Graffenriedt, Turner	Chatham County
Dial, William	Gaston County
Dixon, Frank	Gaston County

Dixon, Wilbur James	Greene County
Dobbin, Glenn	Wilkes County
Duncan, Willie	Greenville County, S. C.
Elliott, Grover	Cleveland County
Edwards, Royal	Person County
Elliott, Walter	Cumberland County
Fischer, Clarence Rudolph	Guilford County
Foushee, French	Moore County
Fuller, Melvin	Franklin County
Gillespie, John W.	Robeson County
Graves, Alexander F.	Guilford County
Gay, Moses	Randolph County
Green, Jerry	Montgomery County
Gunn, Alvis	Guilford County
Hardy, Waverly	Isle of Wight County, Va.
Harris, Charles H.	Halifax County
Hockaday, Caro Beecham	Wake County
Holt, Floyd K.	Guilford County
Howse, James Alexander	Lincoln County
Isenhour, Fred B.	Cabarrus County
Johnson, Willie	Malboro County, S. C.
Jones, Charles	Johnston County
Jones, David Lee	Franklin County
Jones, Debro	Johnston County
Long, George	Alamance County
Long, J. H.	Anson County
Lytle, Edward B.	Mecklenburg County
McDougald, Willie	Cumberland County
McElrath, Odell	Mecklenburg County
McIver, John S.	Lee County
McLauchlin, Lawrence E.	Hoke County
McLauchlin, Richard W.	Hoke County
McNair, Horace C.	Robeson County
Martin, Gurtis	Durham County
Martin, King Alfonzo	Rockingham County
Moore, James Maloy	Pender County
Morrow, Harold E.	Guilford County
Morton, John F.	Orange County
Patterson, Willie O.	Johnston County
Peace, Royal B.	Person County
Reynolds, James Cutler	Pittsylvania County, Va.
Rhyne, Samuel	Gaston County
Richardson, Fred	Wake County
Robinson, Sylvester	Cumberland County



Baseball Team

Rooks, Leonidas E.	Guilford County
Rush, Preston	Montgomery County
Satterfield, Charles	Wake County
Shaw, Nelson	Durham County
Shipp, Carl R.	Mecklenburg County
Southers, William M.	Gaston County
Suggs, Aaron	Greene County
Suggs, Charles	Greene County
Suggs, Malachi	Greene County
Taylor, William C.	Anson County
Thomas, James	Franklin County
Tynes, Alexander	Isle of Wight County, Va.
Wall, Richmond	Richmond County
Watlington, Sanday	Caswell County
Wilkerson, George B.	Cumberland County
Williamson, Woodard V.	Columbus County
Wilson, Alexander A.	Durham County
Wilson, Robert	Catawba County
Wood, Frank N.	Guilford County

Second Year Trade School Class.

Best, Henry A.	Greene County
Blair, Willie Robert	Cabarrus County
Bloomfield, Andrew	Richmond County
Boddie, George B.	Edgecombe County
Bolden, John Loyd	Caswell County
Bost, Joseph B.	Cabarrus County
Bowen, Theodore	Beaufort County
Bowman, Nathaniel	Rutherford County
Brooks, Henry	Rockingham County
Bruner, Raymond	Cabarrus County
Chapman, Mitchell	Chesterfield County, S. C.
Craig, Sankey W.	Chatham County
Gaither, Joseph C.	Jackson County
Goodson, Addison T.	Johnston County
Grasty, Nathan W.	Pittsylvania County, Va.
Green, Solomon	Richmond County
Hardy, Owen T.	Halifax County
Hargraves, Charles B.	Orange County
Hines, Alonzo	Scotland County
Holt, Arthur	Wayne County
Horton, James K.	Johnston County
Hunt, Weaver V.	Wilkes County
Johnson, Lauroy E.	District of Columbia

Joyner, John W.	Washington County
King, Willard W.	Rockingham County
Maloy, William H.	Guilford County
McConnell, James M.	Guilford County
McIver, Edward Lee	Lee County
McKellar, Sanday	Robeson County
McRae, E. W.	Hoke County
Montague, Joshua	Wake County..
Mosby, Alfred	Norfolk County, Va.
Moye, Ulysses Grant	Pamlico County
Nelson, Earl W.	Guilford County
Norris, Edward P.	Pitt County
Palmer, Wesley	Caswell County
Parker, J. Howard	Howard County, Md.
Peace, Roger	Person County
Reynolds, Edward Floyd	Guilford County
Sanders, Isaiah S.	Johnston County
Sellers, William H.	Alamance County
Sheppard, Price	Hoke County
Smith, James	Cabarrus County
Southerland, Arthur	Scotland County
Tillman, James Garfield	Anson County
Tucker, James L.	Notoway County, Va.
Tucker, Thaxton W.	Surry County
Webb, Will'am	Alamance County
Whitted, W. A.	Durham County
Williams, General	Chatham County
Williams, Leslie	Halifax County
Wilson, Olyn M.	Richmond County
Wood, John Riddick	Perquimans County
Wright, Wesley	Columbus County
Wyche, Percy V.	Vance County

Third Year Trade School Class.

Armstrong, William	Guilford County
Brower, Herbert Charles	Guilford County
Burnett, Charles	New Hanover County
Claiborne, N. William	Vance County
Cobb, Turner	Nansemond County, Va.
Colbert, Charles	Norfolk County, Va.
Fields, Horace	Norfolk County, Va.
Gibson, Albria R.	Rowan County
Graves, Marion	Guilford County
Howell, Herbert H.	Cleveland County

Leary, William E.	Cumberland County
McCormick, Hosea V.	Hoke County
McNair, John R.	Robeson County
Moore, Jasper Lee	Nash County
Sevier, William H.	Guilford County
Small, William	Moore County
Womble, Russell C.	Moore County

Fourth Year Trade School Class.

Amey, Cornelius R.	Durham County
Atkins, Olivet C.	Elizabeth County, Va.
Blackwell, Rufus	Guilford County
Bridges, Nathaniel	Guilford County
Brooks, C. Rufus	Guilford County
Brower, James A.	Richmond County
Brown, Winslow D.	Baltimore, Md.
Coppage, James E.	Norfolk County, Va.
Davison, George	Mecklenburg County
Ellis, Walter David	Wake County
Fulp, Frank	Forsyth County
Haywood, Chester	Montgomery County
Hill, Charles	Guilford County
Kerr, Bogle	Iredell County
King, Alexander S.	Robeson County
Lesueur, J. Rudolph	Cumberland County
Martin, Postell	Chester County, S. C.
Matthews, Baxter	Forsyth County
Murphy, Will Clay	Iredell County
Puryear, John W.	Halifax County, Va.
Reddrick, Emmanuel M.	Richmond County
Richardson, Edward L.	Guilford County
Setzer, James L.	Yorke County, S. C.
Smith, Leopold	Bertie County
Sutton, Jesse	Cabarrus County
Taylor, James E.	Guilford County
Tucker, David N.	New Haven County, Conn.
Williams, John Thomas	Wake County
Wormack, Allie	Harnett County

COLLEGE CLASSES.

Freshman Class.

Barnett, Lockett H.	Person County
Caldwell, John M.	Cabarrus County
Cobb, John H.	Pitt County
Eccles, Henry C.	Guilford County
Freeman, Louis B.	Wake County
Gilmer, Prather	Durham County
Hocutt, Hubert H.	Johnston County
Lay, Benjamin	Lincoln County
McDonald, George	Bertie County
Morrow, William E.	Guilford County
O'Neal, Joseph C.	Norfolk County, Va.
Polk, Lonnie	Wake County
Purrington, Sylvester	Wilson County
Reddick, Zachariah	Richmond County
Reeves, Pearley	Louisa County, Va.
Smelley, Vernon P.	Norfolk County, Va.
Smith, Leoia	Johnston County
Talbott, George Leroy	Norfolk County, Va.
Thompson, Charles F.	Moore County
Threadgill, Joseph C.	Anson County
Williams, John H.	Halifax County
Young, Clydur Wood	Northampton County

Sophomore Class.

Adams, Bilton F.	Wilkes County
Blount, Dutch	Wayne County
Coles, Russell W.	Prince Edward County, Va.
Curry, J. W.	Davidson County
Holden, Reginald A.	District of Columbia
Hollomon, Herbert H.	Hertford County
Humphrey, William H.	Gaston County
Lackey, Elam	Alexander County
Lindsay, Ulysses Grant	Guilford County
McKellar, Duncan	Robeson County
Rieves, Caswell	Guilford County
Sapp, John W.	Guilford County
Steadman, James G.	Chatham County
Thibodeaux, Oscar W.	Parish of Orleans, La.
Ward, Roscoe	Guilford County

Junior Class.

Dupree, Dennis	Greene County
Dupree, Jacob	Greene County

Floyd, John H.	Robeson County
Hollomon, Raleigh B.	Hertford County
Lee, Daniel W.	Anson County
McRae, John Allen	Robeson County
Roberts, George	Cleveland County
Scurlock, David Pink	Moore County
Simmons, Sidney B.	Cumberland County
Watlington, James M.	Caswell County

Senior Class.

Barber, John H.	Cabarrus County
Burnett, Foster F.	New Hanover County
Christmas, Lawrence D.	Cumberland County
Headen, Guy C.	Guilford County
Leak, Henry Clay	Richmond County
Love, Caddie Peter	Haywood County
Love, George B.	Haywood County
McNeill, Claudius W.	Anson County
Reid, James E.	Montgomery County
Virgo, David Clarke	Jamaica, B. W. I.

Special Students.

Abernethy, Frank S.	Lincoln County
Bryant, Jack L.	Brunswick County
Burgess, Carlton C.	Wake County
Caldwell, John F.	Cabarrus County
Caldwell, Robert L.	Cabarrus County
Daniel, Nathaniel B.	Danville County
Delmore, Harry	Mobile County, Ala.
Earls, Spurgeon D.	Cleveland County
Ferguson, Henry D.	Harnett County
Flagg, James S.	Wake County
Harvey, Harrington	Essex County, N. J.
Holtzclaw, Marcus T.	Rowan County
Hooker, William E.	Jones County
Jenkins, John D.	New Hanover County
King, John W.	Halifax County, Va.
McConnell, Joseph M.	Guilford County
Norman, John C.	Granville County
Overby, William	Granville County
Powell, Andrew	Nash County
Powell, Smith W.	Robeson County
Reyonlds, Walter R.	Guilford County
Russell, James Hampton	Cabarrus County
Small, Stanley Levi Washington.....	Davidson County
Thomblin, Harry P.	Bowen's Mills, Ga.

Distribution of Students by Counties of North Carolina.

County.	No.	County.	No.	County.	No.
Alamance	3	Granville.	3	Orange	4
Alexander	1	Greene	8	Pamlico	3
Anson.	6	Guilford.. . . .	33	Pender	1
Beaufort.. . . .	1	Halifax	4	Perquimans. . . .	1
Bertie.	2	Harnett.. . . .	2	Person	4
Brunswick	1	Haywood	2	Pitt	2
Cabarrus.	13	Hertford.. . . .	3	Randolph	1
Caswell	4	Hoke	7	Richmond	9
Catawba	1	Iredell.	2	Robeson.	9
Chatham	4	Jackson	1	Rockingham. . . .	4
Cleveland	4	Johnston.	8	Rowan	2
Columbus	2	Jones.	1	Rutherford	1
Cumberland. . . .	8	Lee	2	Scotland.	2
Davidson	2	Lincoln	2	Surry.. . . .	1
Davie.. . . .	1	Mecklenburg . . .	4	Vance.	2
Durham	6	Montgomery. . . .	5	Wake.	11
Edgecombe. . . .	1	Moore.	5	Washington. . . .	1
Forsyth	2	Nash	2	Wayne	4
Franklin.	3	New Hanover . . .	3	Wilkes	3
Gaston	7	Northampton . . .	1	Wilson	1

Summary of Regular Students.

Alabama	1
Connecticut	1
District of Columbia	2
Georgia	1
Jamaica, B. W. I.	1
Louisiana	1
Maryland	2
New Jersey	1
North Carolina	237
South Carolina	5
Virginia	19
Total	271

Distribution of Summer School Students.

County.	No.	County.	No.	County.	No.
Alamance	1	Lee.	2	Richmond	4
Anson	4	Lenoir	3	Robeson.. . . .	7
Bertie	2	Mecklenburg	3	Rockingham.	8
Cabarrus.	1	Montgomery.	5	Sampson.	2
Catawba.	1	Moore.	2	Scotland.. . . .	1
Cumberland.	2	Nash	1	Stokes	3
Davidson.	2	New Hanover	2	Wake.	16
Durham	3	Orange	1	Washington.	1
Forsyth	9	Pasquotank.	1	Wayne	1
Guilford.	93	Perquimans.	1	Wilson	1
Hoke.. . . .	1	Randolph.	2	Yadkin	2

South Carolina 1

Virginia 5

Summary of All Students for the Year Ending May 31, 1913.

Alabama	1
Connecticut	1
District of Columbia	2
Georgia	1
Jamaica, B. W. Indies	1
Louisiana	1
Maryland	2
New Jersey	1
North Carolina	424
South Carolina	6
Virginia	24
Total	464
Number of States	9
Number of Foreign Counties	1
Number of Counties of North Carolina.....	60
Total	70

SUMMER SCHOOL.

The fourteenth annual session of the A. & M. College Summer School will begin June 23rd and continue five weeks. The Negro teachers of the State are invited to co-operate in building a strong State Summer School that will help to foster patriotism and bind together all who are interested in educational progress.

Specialists in Primary Method, School Management and all the common branches will be included on the staff of instructors.

Terms—Session, \$12.00; week, \$3.00; day, 75c.

The college is beautifully located and is an ideal spot for a pleasant summer resort.

For Prospectus, etc., apply to President J. B. Dudley, Greensboro, N. C., or Dr. S. B. Jones, Director of the Summer School, A. & M. College, Greensboro, N. C.

AGRICULTURAL AND MECHANICAL COLLEGE FOR THE
COLORED RACE
Greensboro, North Carolina.

APPLICATION FOR ADMISSION

1. Name
2. Post-Office Address (city).....
3. Street and Number.....R. F. D.....
4. County State.....
5. Parents's }
Guardian's } Name.....
6. Home (Post Address, city).....
7. Age last birthday.....
8. What day do you expect to enter school?.....
9. Name of school you attended last.....
10. Give postoffice address of your last teacher.....
.....
11. Have you ever been dismissed, suspended or expelled from a
school?
12. Recommended by
13. Present work is
14. I desire to learn

In applying for admission, I promise, if accepted, to conduct myself in a manner becoming a gentleman, and to make proper use of the educational advantages offered. I promise to observe and obey the regulations of the institution.

(Applicant's signature).....
Do not write below this line.

The applicant has been examined and assigned to.....Year Class.
.....Dept.Classifier.

Tuition..... Lodging..... Medical Fee.....
.....Bursar.

Vaccination requirements satisfied, this.....191...
.....M. D.

The above application approved.
.....President

No..... Entered..... Page.....

(OVER)

DIRECTIONS FOR ENTRANCE.

The applicant will make the following payments:

Monthly Payments

Tuition, per month	\$1.00
Lodging—use of room, bedding, etc., per month.....	1.00
Board, per month	5.00

Term Payments

Chemical Laboratory Fee	\$1.00
Physical Laboratory Fee .....	.50
Work Shop (Mechanical Department).....	1.00

Yearly Payments

Incidental Deposit	\$2.00
Registration Fee	2.00
Dining Hall Fee	2.00
Medical Fee	1.00
Library Fee	1.00
Athletic Fee .....	.50

The first yearly payment on Students' Building Fund is \$3; subsequent yearly payments are \$1 each.

These charges are payable strictly in advance.

No student can remain on the grounds longer than 24 hours without registering.

No student will be admitted in any department of the college without paying first month's expenses in advance.

JAS. B. DUDLEY, President.

(OVER)

Agricultural and Mechanical College
For the Negro Race.

Greensboro, N. C.

COLLEGE SONG

(By Mrs. Jas. B. Dudley.)

Dear A. & M., dear A. & M.,
A monument indeed
Around thy base with grateful hearts
Behold thy students kneel.
We bless the power that gave thee
birth
To help us in our need;
We'll ever strive while here on earth
All loyalty to yield!

(Chorus)

With joy, with joy, dear A. & M.,
Thy students turn from thee
To spread thy trophies year by year,
From Dare to Cherokee.

Dear A. & M., dear A. & M.,
The signet thou shalt be,
Set by our great, old commonwealth,
Proud boaster of the free.
She'd have the record of her worth
On granite not inscribed;
Nay; let the children of her birth
Proclaim it by their lives.

Dear A. & M., dear A. & M.,
Henceforth our aim shall be,
By precepts wise, by deeds more sure,
To bless the State through thee.
The arts of industry to wield
Against an idle foe;
A harvest rich, from ripened fields
Of what thy students sow.

BULLETIN

OF

A. & M. COLLEGE

PUBLISHED BY

Agricultural & Mechanical College
For the Colored Race



GREENSBORO, - NORTH CAROLINA

Issued Quarterly

Vol. 8

JUNE, 1914

No. 1

CALENDAR, 1914-1915

Entered as Second-Class Matter, July 2nd, 1909, at the Postoffice at
Greensboro, N. C., under Act of July 16th, 1894

ANNOUNCEMENTS

1. **REGISTRATION FEE.**—Each student will be required to pay upon entering each session a registration fee of \$2, and a library fee of \$1.

2. **MEDICAL FEE.**—Every student lodger must pay one dollar medical fee. There will be no further charges for medical attention; but this fee does not include expenses for medicine, bandages or dressings.

3. **VACCINATION.**—Each student will be required to be vaccinated on entrance unless he can satisfy the College physician that vaccination is unnecessary.

4. **LODGING DEPOSITS.**—On account of limited accommodations, students can secure rooms at once by paying one dollar for September lodging. In case of sickness or inability to attend, the one dollar will be refunded, provided application for its return is made before September 1, 1914.

5. **SPECIAL EXAMINATIONS.**—Entrance examinations and examination for the removal of conditions will be held September 1, 2, 3 and 4. All students with conditions should avail themselves of the opportunity. As special examinations are *not held* during the session, no conditions will be moved except during the examination weeks.

Each student must pay on entering all entrance fees and expenses for his first month.

CALENDAR FROM JUNE 1, 1914, TO MAY 31, 1915.

1914.

JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6				1	2	3	4							1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
														30	31					
SEPTEMBER							OCTOBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					

1914-1915

DECEMBER							JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2		1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28	29	30	28						
							31													
MARCH							APRIL							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3	2	3	4	5	6	7	8
7	8	9	10	11	12	13	4	5	6	7	8	9	10	9	10	11	12	13	14	15
14	15	16	17	18	19	20	11	12	13	14	15	16	17	16	17	18	19	20	21	22
21	22	23	24	25	26	27	18	19	20	21	22	23	24	23	24	25	26	27	28	29
28	29	30	31				25	26	27	28	29	30		30	31					

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Main Building.

TWENTIETH ANNUAL CALENDAR

OF THE

**Agricultural and Mechanical College
For the Colored Race**

GREENSBORO, NORTH CAROLINA

1914-1915

**THE RECORD JOB OFFICE
Greensboro, N. C.**

CALENDAR 1914-1915

September 1, 2, 3, 4—Entrance examinations and examinations for removal of conditions.

September 5—Registration day.

September 7—Fall Term begins.

November 24-27—Fall Term examinations.

November 30—Fall Term ends.

December 1—Winter Term begins.

February 23-26—Winter Term examinations.

February 28—Winter Term ends.

March 1—Spring Term begins.

May 21-26—Spring Term examinations.

May 24—Baccalaureate sermon.

May 27—Commencement.

July 5—Summer School.

HOLIDAYS

Thanksgiving Day.

Christmas Day and New Year's Day.

Washington's Birthday, February 22.

Easter Monday.

SPECIAL DAYS

Arbor Day (day after Thanksgiving)—Special programme by Department of Agriculture and Chemistry.

Douglas' Birthday, and Lincoln's Birthday, February 12. Special programme by English Department.

Morrill's Birthday, April 14—Agricultural and Mechanical Societies have special programme.

BOARD OF TRUSTEES

W. H. Allen	Wayne County
M. W. Bell	Cherokee County
W. E. Brooks	Chatham County
W. A. Darden	Pitt County
F. W. Dunlap	Anson County
W. A. Enloe	Jackson County
J. I. Foust	Guilford County
W. L. Kluttz	Rowan County
J. B. Minor	Guilford County
R. W. Morphis	Rockingham County
M. C. S. Noble	Orange County
W. P. Stacey	New Hanover County
J. E. Swain	Buncombe County
C. M. Vanstory	Guilford County
W. L. Vaughan	Beaufort County

OFFICERS OF TRUSTEE BOARD

M. C. S. Noble, Chairman.

A. T. Whitsett, Secretary.

FACULTY AND OFFICERS

JAMES B. DUDLEY, A. M., LL. D., President and Head of the English Department.

JUNIUS ROOKS, Steward, 1895.

J. H. BLUFORD, B. S., A. M., Director of the Agricultural Department and Instructor in Agriculture and Chemistry. 1902.

W. N. NELSON, A. B., Instructor in Drawing and Carpentry. 1903.

MARTIN GOINS, Secretary and Librarian. 1907.

A. T. WHITSETT, Treasurer. 1909.

A. D. WATKINS, Instructor in Bricklaying and Plastering. 1909.

B. W. BARNES, B. Agr., Instructor in Dairying. 1909.

S. B. JONES, B. A., M. D., Director of the Academic Department and College Physician. 1910.

M. S. SANDERS, B. S. M., Instructor in Broommaking. 1909.

CHARLES E. STEWART, B. D., Instructor in Music and General History. 1909.

C. L. FOSTER, B. S., Instructor in Forging and Wheelwrighting. 1910.

D. K. CHERRY, A. B., Instructor in Mathematics. 1911.

W. F. COLEMAN, Instructor in Geography and U. S. History. 1911.

A. L. MEBANE, B. Agr., M. S. A., Instructor in Dairying and Animal Husbandry. 1911. Farm Superintendent 1914.

L. P. BYARM, B. S. M., Assistant Instructor in Machine Shop Practice. 1911.

R. H. HAMPTON, B. S., Instructor in Horticulture. 1912.

F. D. WHARTON, B. S. A., Instructor in Market Gardening. 1912.

W. L. HORNE, Assistant Secretary. 1912.

D. J. JORDAN, M. S., LL. B., Instructor in the Academic Department and in charge of the Teachers' Training Department.

E. W. FISHER, Instructor in Machine Wood Turning. 1912.

F. D. BLUFORD, A. B., Pd. B., Instructor in the Academic Department. 1912.

F. C. JOHNSON, B. S., Director of the Mechanical Department and Instructor in Higher Mathematics. 1913.

R. C. CAMPBELL, Instructor in Machine Shop Practice and in charge of heating system. 1913.

C. C. AMEY, B. S., Registrar and Bursar. 1914.

W. H. MARKHAM, B. S., Assistant Registrar. 1914.

THE AGRICULTURAL AND MECHANICAL COLLEGE FOR THE COLORED RACE.

This college was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the college and the care and preservation of all its property is vested in a Board of Trustees, consisting of fifteen members, who are elected by the General Assembly, or appointed by the Governor, for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the college; to elect the president, instructors, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the college.

The financial support of the college for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and support of colleges for the benefit of agriculture and mechanic arts to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The college also receives an appropriation from the State

for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

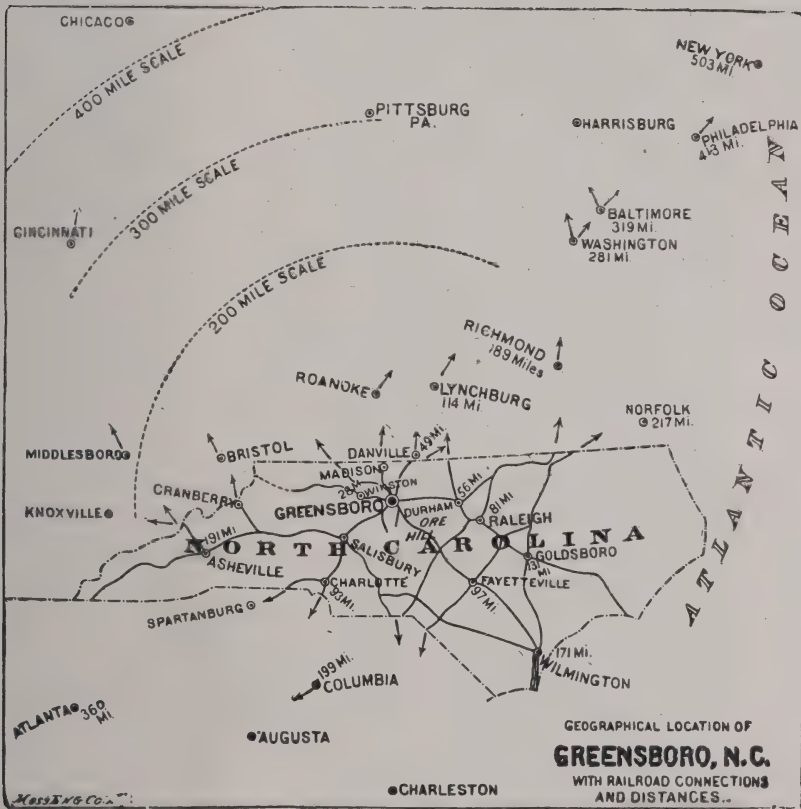
The citizens of Greensboro donated fourteen acres of land and \$11,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year.

Every Negro who will observe the splendid record of success and of usefulness which the graduates almost without exception are making must naturally feel grateful to the "Old North State" for the excellent work that this Commonwealth is doing for the uplift of its Negro citizens. Every intelligent citizen, black or white, who will note the substantial interest and splendid support that this institution is receiving from every State official and from the representatives of the people in every Legislature, must admire the wise and liberal treatment North Carolina is giving for the maintenance of helpful institutions for her Negro citizens, and ever appreciate the excellent results that are being accomplished. It is certain no Negro can study the important work of this institution and its influence for the advancement of all people without feeling a stronger sense of obligation to his State that he should strive to be a better, truer and more patriotic citizen of the great State of North Carolina.

ADMISSION

Before coming to the college every new student should write for an application blank. This should be filled out and returned to the President. The student will then be informed whether his application has been accepted. He should not leave home for the college until he receives word that his application has been accepted.

Applicants must be in good health and not under 16 years



of age; must understand fairly well the forms and rules of the English language, must know addition, subtraction, multiplication and division of whole numbers, and have a knowledge of geography and history.

Entrance examinations will not be required of students who have completed the eighth grade in the grammar schools, or who can furnish evidence that they have completed in reputable schools courses similar to those completed by the class to which they seek admission.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

TUITION

Tuition of one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

EXPENSES

Parents and guardians are advised to send direct to the President of the college all sums of money intended to defray expenses of students. If this suggestion is followed, it will not be possible for a student to spend for other purposes money sent him to meet his school bills. School bills must be paid by cash, postoffice money order, express money order, or bank draft. Personal checks are not accepted.

Although it is the aim of the college to furnish as much employment as possible to assist students in defraying expenses,



View of Campus.

no promise nor guarantee can be made in advance to furnish such work.

Students who work during the day and attend school at night will be allowed ten dollars a month. This will meet all their current expenses. They should be prepared to pay the expenses of the first month in the same way as day students.

The charges made by the college for board, lodging and tuition must be settled in advance the first day of each month. The college does not hold students on credit. No monthly payment will be returned and no student will be credited with fractional parts of monthly payments, except that students entering may make their initial payment to the first of the next month.

Positively no student will be allowed to enter any department of the college without paying in *cash* the first month's expenses, as stated below.

The first month's expenses will be about \$20.00. Expenses for subsequent months will be between \$6.00 and \$8.00.

Matriculation fee, payable once only by new students....\$5.00

MONTHLY PAYMENTS.

Tuition, per month	\$1.00
Lodging—use of room, bedding, etc., per month.....	1.00
Board, per month	5.00

TERM PAYMENTS.

Chemical Laboratory Fee	\$1.00
Physical Laboratory Fee .....	.50

YEARLY PAYMENTS.

Incidental Deposit	\$2.00
Registration Fee (for former students only).....	1.00
Dining Hall Fee	1.00
Medical Fee	1.00
Library Fee	1.00
Athletic Fee .....	.50

These charges are payable strictly in advance.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, work-shops and dining-hall when properly countersigned.

In addition to the above expenses the cost of text books must be considered. This will amount to about \$12.50 per year.

Free tuition or county students will pay \$1.00 per month less than the above.

Board, lodging, medical fee, tuition, and incidental deposit must be paid before the rooms are assigned and tickets of admission to class-rooms, work-shops and dining-hall are issued.

In addition to the above charges each student will be required to give at least three hours work per week.

SUPPLIES

Each student must bring a hairbrush and comb, toothbrush, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit \$2.00 to cover any charges which may be made against him for damages done.

It is desired that all students be uniformed. A student returning to the college must show that he owns, or has placed an order for, a uniform before he can receive advanced classification cards. Our regular college uniforms are neat and attractive and can be worn at all times. The prices are as follows: Cap, \$1.75; coat, \$7.00; pants, \$3.50. More expensive uniforms can be had if desired. The regular uniform is made of very good material and should last the average student at least two or three years.

No student organization will be allowed to leave the college in a body without being in uniform.

No student lodging on the campus will be permitted to leave the campus without being in uniform.



South Dormitory.

RULES GOVERNING CLASSIFICATION

1. Regular students must take a minimum of fifteen hours of credit work per week at least six of which shall be industrial or manual training work.

2. Examinations for the removal of conditions will be held at no other time than the regular term examination periods.

3. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably.

4. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

5. Any student failing to secure 50 per cent. of the total marks obtainable during any term, will be required to take a lower class or sever his connection with the college and be allowed to return the following session.

GRADUATION

It is the aim of this institution to send forth men who are fit representatives. To this end, the faculty reserves the right to refuse to admit any student to the Senior class or to graduate any one who, though qualified by class record, may otherwise be unfit.

Students graduating from the Trade School Courses are entitled to Certificates.

Students are entitled to a Diploma of the college upon the completion of the prescribed courses.

Candidates for graduation from the college, in addition to the work outlined in the catalogue, must spend at least one summer at the college for instruction in practical work, unless they furnish satisfactory reports from responsible persons as to their efficiency.

DEGREES

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Science in Agriculture.

Students graduating from the Mechanical Course shall be entitled to the degree of Bachelor of Science in Mechanics.

Members of the Senior class must deposit the fee for Diploma thirty days before commencement day.

GENERAL INFORMATION

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 3 to 9 cents per hour, for which they can get credit each month at the time of their advanced payment.

Students receiving aid by labor which they may secure at the college are requested to observe: (a) That credit on school expenses, and not money, will be allowed for student labor; (b) that credit cannot be transferred from one student to another.

The several industries operated by the school afford opportunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission will be required to sign a pledge, binding obedience to the rules of the college. Parents and guardians are particularly requested to examine



Library.

our Rules and Regulations, to be found on another page of this catalogue.

It will be the purpose of the college to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. Sunday school is conducted every Sunday during the school year. All religious services will be free from sectarianism. A flourishing Temperance Society is now in operation.

There are two literary societies, the Dunbar and Douglass, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. The faculty, by presence and advice, will seek to encourage these societies. Membership in one or the other of these societies will be compulsory. There are two technical societies, in which special topics in connection with agriculture, mechanics and chemistry are considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinity, will be required to room and board in the college—except when the consent of the Faculty has been secured by the written request of the parent or guardian. Consent will only be given, however, when the judgment of the Faculty directs that it can be done, with safety; as the college cannot, nor does it desire to rid itself wholly of the responsibility out of school hours of the conduct of students who do not room and board in the college.

Students who lodge at the college will not be allowed to work in the city except in the employment of the college.

The *industrial* part of each course of instruction applies to all students, *and none will be excused therefrom.*

INDUSTRIAL MUSEUM

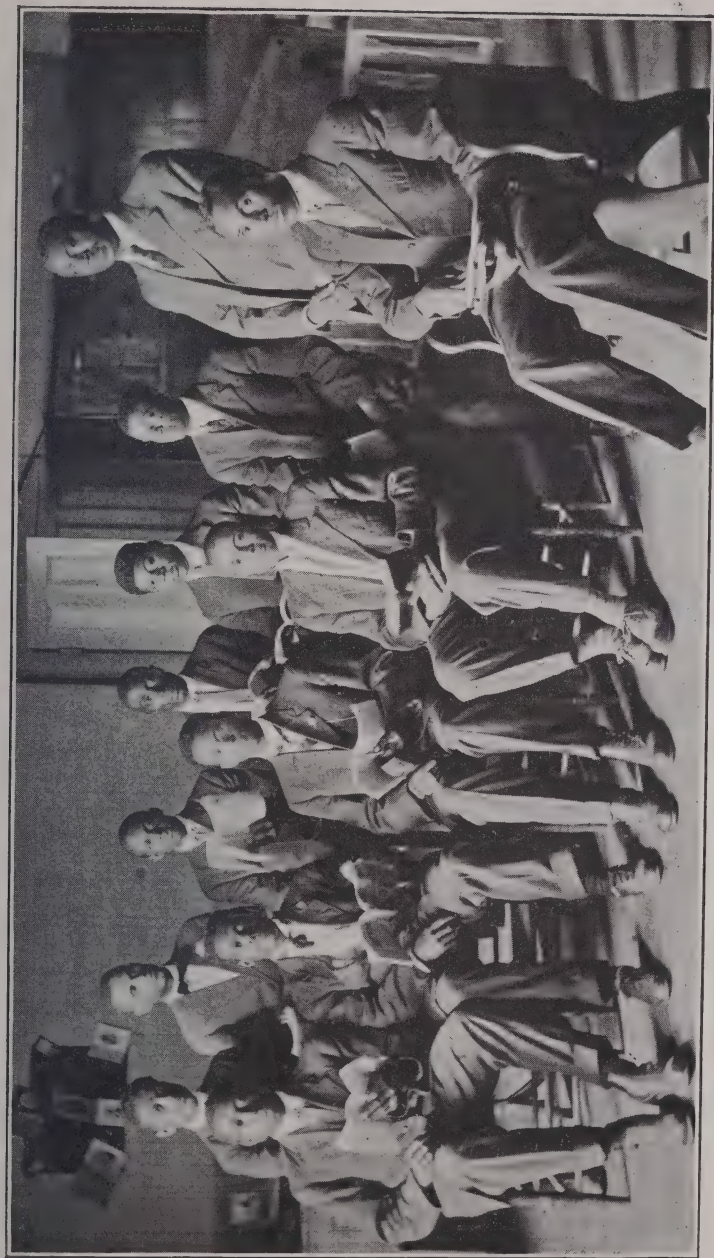
An Industrial Museum has been started and already valuable collections of work done by students are to be seen. We have collections representing the work in carpentry, blacksmithing, and the various trades; also specimens from the Agricultural, English and Dairy Departments. Such articles for exhibit are collected once every month.

RULES AND REGULATIONS

1. The signal for rising will be given at 5.45 a. m. Dressing and arranging rooms, 5.45 to 6.15 a. m. Inspection, 6.15. Breakfast, 6.30 to 7 a. m. Study hour, 7 to 8. Chapel, 8 to 8.30 a. m. Morning session, 8.30 to 12 a. m. Dinner from 12.10 to 1 p. m. Afternoon session, 1 to 4 p. m. Recreation, 4 to 6 p. m. Supper, 6.10 to 6.30 p. m. Study, 7 to 9.30. Night school session, 7 to 9.30. Inspection 10.15 p. m. Retiring signal and lights out 10.30 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or to indulge in vulgar language will be deemed an unfit associate and will be expelled from the college. Untruthfulness or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all special exercises, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.



Students, Instructor and Normal Teacher of Sunday School Class, 1914.

4. Students who interrupt the quiet and order of college life by noises in or near the buildings or who commit intentional damage to college property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from chapel and class work, or who persistently neglect college duties, or who absent themselves from college grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious, meritorious students, and will not be allowed to continue as students in the college.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their sons or wards to attend.

7. Any student shooting or having on his person, in his room, or on the College premises, rifles, spring guns, fire arms or deadly weapons of any kind whatsoever will be dismissed.

8. The use of playing cards, tobacco, spirits, malt or vinous liquors by the students is prohibited. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the college grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen, store-rooms or pantry. Students are prohibited from entering the dining-room, except at meal time.

10. Strict discipline will be enforced in the dining room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory buildings.

12. At all times the students shall deport and express them-

selves respectfully toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands by any member of the Faculty shall be held guilty of contempt and punished accordingly.

13. No students will be retained after he has received thirty-four demerits in any one term of a session.

14. Every new student must be vaccinated before entrance, or present a doctor's certificate showing that he has been successfully vaccinated within two years.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishonesty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

19. Students are not permitted to walk on grass plots and will be demerited for this offence.

By order of

THE BOARD OF TRUSTEES.

NOTICE TO AGRICULTURAL STUDENTS

Agricultural students will take notice that beginning with the Spring Term of 1912 the following number of hours of practical work must be acceptably done before graduation from the college:

FRESHMAN CLASS.

Fall Term—75 actual hours, Greenhouse.

Winter Term—75 actual hours, Dairy.

Spring Term—75 actual hours, Greenhouse.

Total for Freshman—225 actual hours, divided as follows:
Greenhouse, 113 actual hours; Dairy, 113 hours.

SOPHOMORE CLASS.

Fall Term—75 hours, Greenhouse and Campus.

Winter Term—75 hours, Dairy.

Spring Term—75 hours, Greenhouse and Plots.

Total, 225 hours. Greenhouse, 113 hours; Dairy, 113 hours.

JUNIOR CLASS.

Fall Term—75 hours, Greenhouse and Plots.

Winter Term—75 hours, Dairy.

Spring Term—75 hours, Market Gardening on Plots.

Total, 225 hours. Greenhouse, 113 hours; Dairy, 113 hours.

Summer Term—320 hours, Farm. Total, 545 hours.

SENIOR CLASS.

Fall Term—75 hours, Farm.

Spring Term—75 hours, Farm.

Total, 150 hours.

TOTAL HOURS.

Greenhouse, 339 hours.

Dairy, 339 hours.

Farm, 470 hours.

Total, 809 hours.

NOTICE TO MECHANICAL STUDENTS.

Mechanical students will take notice that beginning with the

Spring Term of 1912 the following number of hours of practical work must be done satisfactorily before graduation from the College:

FRESHMAN CLASS.

Fall Term—75 actual hours in any shop.

Winter Term—75 actual hours in a shop other than that selected for the Fall Term.

Spring Term—75 actual hours in a shop other than the two selected in the Fall and Winter Terms.

SOPHOMORE CLASS.

Fall Term—75 actual hours, at the trade selected.

Winter Term—75 actual hours, at the trade selected.

Spring Term—75 actual hours, at the trade selected.

JUNIOR CLASS.

Fall Term—75 actual hours, 84 credits, at the trade selected.

Winter Term—75 actual hours, 84 credits, at the trade selected.

Spring Term—75 actual hours, 84 credits, at the trade selected.

SENIOR CLASS.

Fall Term—75 actual hours, 70 credits, at the trade selected.

Winter Term—75 actual hours, 70 credits, at the trade selected.

Spring Term—75 actual hours, 70 credits, at the trade selected.

NOTICE TO TRADE SCHOOL STUDENTS

Trade School students will take notice that the following number of hours of practical work must be satisfactorily performed during each of four years before graduation from the Trade School Course:

Fall Term—168 hours, at selected trade.

Winter Term—168 hours, at selected trade.

Spring Term—168 hours, at selected trade.



Senior Class 1914.

OUTLINE OF COURSE OF STUDY

Eighteen hours must be passed per term and not more than two conditions incurred in order to be promoted to the next higher class. Recitation and lecture periods 45 minutes; the laboratory, two hours; shop, and other periods, three hours.

FIRST YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	5
North Carolina History.....	2	2	2
Geography	2	2	2
Reading	2	2	2
Penmanship	2	2	2
Music	1	1	1
Trade	5	5	5

SECOND YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Arithmetic	5	5	5
United States History	2	2	2
Geography	3	3	3
Reading	2	2	2
Drawing	2	2	2
Music	1	1	1
Trade	5	5	5

THIRD YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5

Arithmetic	5	5	5
United States History	2	2	2
Physical Geography	2	2	2
Drawing	2	2	2
Physiology	3	3	3
Music	1	1	1
Trade	5	5	5

FOURTH YEAR TRADE SCHOOL CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Algebra	5	5	5
General History	2	2	2
Bookkeeping	3	3	3
Civics	2	2	2
Drawing	2	2	2
Music	1	1	1
Trade	5	5	5

FRESHMAN CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
English	5	5	5
Algebra	5	5	5
Biology (Plant)	3		
Biology (Animal)		3	
General History	3	3	3
Music	1	1	1
Elementary Chemistry			3
Shop, Greenhouse or Dairy'g	3	3	3
Mechanical Drawing	2	2	2
Current Events	2	2	2

SOPHOMORE CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Plane Geometry	5	5	5



Class in Horticulture.

English	5	5	5
Physics	5	5	5
Chemistry	3	3	3
Market Gardening			2
Materials of Construction...	2	2	2
Study of Breeds.....	2	2	2
Mechanical Drawing	2	2	2
Shop, Greenhouse or Dairy'g	3	3	3
Music	1	1	1

JUNIOR CLASS.

Subjects	Periods Per Week			
	Fall Term	Winter Term	Spring Term	
Geometry (Solid) ..	5			
Trigonometry ..		5	5	
English	5	5	5	
Bacteriology (A) ..	2	2		
Steam Engines (M)	3	3		
Gas Engines (M)			3	
Geology (A)			2	
Animal Breeding (A)	3			
Stock Judging (A)		3		
Veterinary Science (A)			3	
Horticulture (A)	3	3	3	
Mechanism (M)				
Mechanics (M)	5	5		
Heating and Ventilation (M)		3		
Electrical Engineering (M) ..	3	3	3	
Chemistry—Qual. Analy. (A)	3	3	3	
Chemistry—Qual. Analy. (M)	3	3	3	
Dairying (A)	2	2	2	
Shop (M)	3	3	3	
Farm Crops	3	3	3	
Drawing (M)	2	2	2	
Music	1	1	1	

SENIOR CLASS.

Subjects	Periods Per Week		
	Fall Term	Winter Term	Spring Term
Surveying	2		
English	5	5	5
Economics		5	
Agricultural Group:			
Agricultural Physics	3	3	
Thesis			5
Agronomy	2	2	
Entomology	3	3	
Landscape Gardening			2
Agricultural Chemistry	2	2	2
Mechanical Group:			
Strength of Materials	2		
Hydraulics	2		
Hydraulic Motors		2	
Drawing	2	2	2
Power Plant Design		2	
Estimates and Specifications	2	2	2
Shop	3	3	3
Thesis			5
Music	1	1	1

DEPARTMENT OF AGRICULTURE AND CHEMISTRY

JAS. B. DUDLEY, President.

J. H. BLUFORD, Head of Department and Instructor in Agriculture and Chemistry.

A. L. MEBANE, Superintendent of Farm and Instructor in Practical Agronomy.

R. H. HAMPTON, Florist, and Instructor in Horticulture and Botany.

B. W. BARNES, Superintendent of Dairy, and Instructor in Dairy and Animal Husbandry.

F. D. WHARTON, Instructor in Market Gardening.

N. A. BAILEY, Extension Work; Farm Demonstration Agent.

CASWELL RIEVES, Assistant, Dairy Husbandry.

AGRICULTURAL COURSES

1. A four-year college course in Agriculture.
2. A two-year college course in Agriculture.
3. A one week's course in Agriculture.
4. A four-year Preparatory course in Agriculture.

There are four courses in Agriculture—a four-year graded course leading to the degree of Bachelor of Agricultural Science, a two-year course leading to a certificate, and a one-week's course for farmers and others who can only spend a limited amount of time away from their business. The four-year course is designed to give the student a well-rounded education combined with technical and practical instruction. The course is divided so as to give about one-third of the student's time to technical instruction, one-third to scientific and the other third to actual practice. As all agricultural instruction is dependent upon a thorough knowledge of the fundamental sciences the course is essentially scientific rather than literary.

The two-year course is designed especially for the need of those students who have little time to spend in school and wish to get only such instruction as bears directly on their chosen vocation.

Special attention is given to dairying, horticulture, soils, fertilizers, market gardening and stock-raising. The college has frequent calls for young men to do practical work in these subjects.

The one week's course is devoted to a course of lectures and practical demonstrations on dairying, soils, fertilizers and stock-raising. These courses for the most part will be given by experts from the State Department of Agriculture.

The four-year preparatory course is designed to prepare students for the regular Agricultural Course leading to the degree of B. S. A.

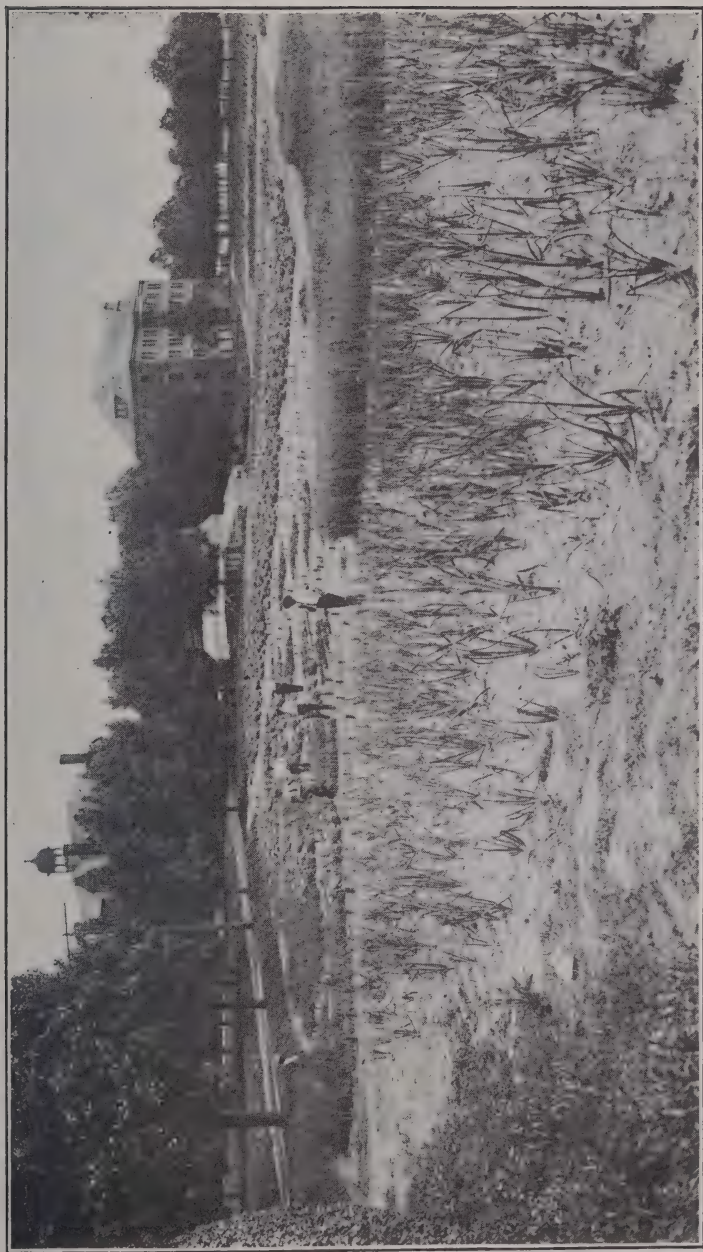
METHODS OF INSTRUCTION.

Instruction is given by laboratory work, text-books, lectures and reference reading. The scientific equipment is excellent—probably the best of any Negro school in the country. All class room work is supplemented by practical work, either in the field, the garden, the greenhouse, the barn, the dairy, or the chemical or physical laboratory.

EQUIPMENT.

The college has twenty-five acres of land in the immediate campus which is used for horticulture and market garden purposes. In addition to this it has a farm of 103 acres of land, most of which is under cultivation. There is a modern two-story barn which is used for dairy cattle, a piggery, and a small poultry plant.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn har-



View of Class Plots.

vester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for butter making. It has two United States, one De Laval and one Sharpless Separator, Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, Aerator, etc., thus enabling us to offer the very best course in butter making. We have recently added apparatus and utensils for cheese making for home consumption.

A ninety ton silo has also been erected for which silage is raised every year. A St. Alban's Shredder is used for cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

A modern barn has recently been built at the College farm and plans are prepared for a new dormitory at the farm for the Superintendent and members of the Senior class.

The dairy farm is stocked with a good herd of milch cows.

Different crops such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wurzel, potatoes, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being conducted on the dairy farm, illustrating the effect of different methods of cultivation and fertilization of several crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The greenhouse is maintained to aid the student in the study of Botany and care of flowers. Instruction is also given in the management of a greenhouse on a commercial scale.

Market gardening is practised on a small scale for the purpose of giving the student practice in the management of early truck lands.

DESCRIPTION OF COLLEGE COURSES

A—INDUSTRIAL—PRACTICAL HORTICULTURE

I.—GREENHOUSE MANAGEMENT. CARE OF CAMPUS. 75 actual hours.

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms. For Freshman and Sophomores. Fall term. Mr. Hampton.

II.—PROPAGATION OF PLANTS. 75 actual hours. Required Course I.

Practice is given in making cuttings, in pottings, rooting, grafting, budding, etc. The student is also taught how to prepare various fungicides and insecticides, how and when to apply them. For Freshmen and Sophomores. Winter term. Mr. Hampton.

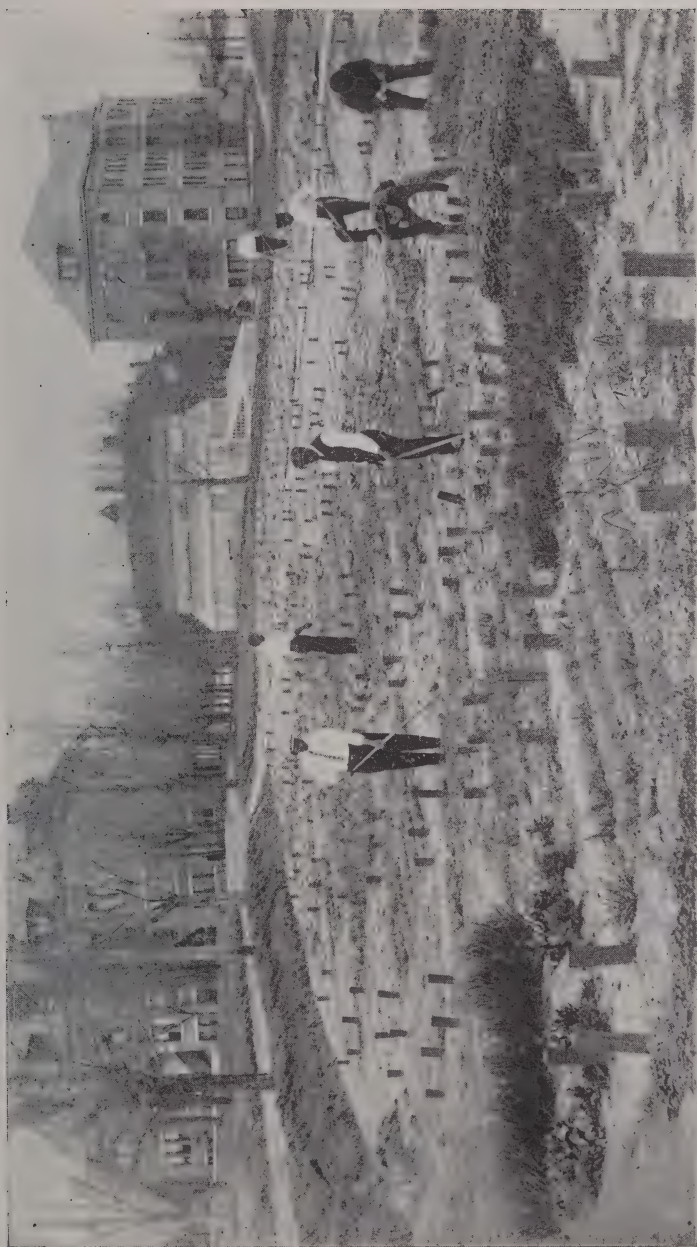
III.—MARKET GARDENING. 75 actual hours. Required Course II. Industrial. For Freshmen and Sophomores.

Practice is given in transplanting plants from the greenhouse or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale. Spring term. Mr. Wharton.

B—AGRICULTURE—BIOLOGY AND GEOLOGY

I.—ELEMENTARY AGRICULTURE.

This course is a general survey of the whole field of Agriculture dealing in a general way with the fundamentals of Agriculture, such as the Soil, Plant Life, Manures and Fertilizers, Farm Crops, Plant Diseases, Insects and Birds, Live Stock and



Students at Work on Plots.

Dairying and Feeds and Feeding. This course will be given by lectures, recitation and practical work on the plots. Three hours Fall and Winter Terms. Mr. Bluford.

II.—ELEMENTARY BOTANY.

Lectures, recitations and laboratory work. Special attention is given to plant morphology, the principles of nutrition, reproduction, growth, sex and adaptation to environment. The importance of the fungi and seed plants is emphasized. The principles of plant breeding, crossing, pollination, budding and grafting are taught. Required of Freshmen. Fall term. Two hours. Text—Bailey and Coleman. Mr. Hampton.

III.—ELEMENTARY BIOLOGY.

The various types and principles of animal life; structure and classification of the vertebrates and invertebrates; the common parasites infecting man and the domestic animals. Freshmen. Winter term. Two hours. Text—Bailey and Coleman Elementary Biology. Mr. Hampton.

IV.—ELEMENTARY GEOLOGY.

Structural geology; important minerals and elements of the earth's crust; the igneous or eruptive rocks; sedimentary and metamorphic rocks; dynamic geology—wind and river erosion; underground water and lake deposits; glaciers, mountains, volcanoes; earthquakes and geysers; stratigraphic geology. The uses of fossils; life during the archæan and paleozoic times. The glacial period. For Juniors. Spring term. Three hours. Mr. Bluford.

AGRONOMY

V.—FARM MANAGEMENT.

Lectures and recitations upon the selection, location, plan-

ning and the equipment of farms; farm building and machinery. Systems of cropping and farm accounts. For Seniors. Winter term. Two hours. Text—Card's Farm Management. Mr. Mebane.

VI.—AGRICULTURAL PHYSICS. Required Courses III. Physics and V. Chemistry and I. Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: Agricultural Physics.—*King*. For Seniors. Fall and Winter terms. Three hours. Mr. Bluford.

VII.—AGRICULTURAL PHYSICS LABORATORY WORK. Courses I., II. and III. required. (Gen. Physics.)

This course will accompany Course IV. with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work. Spring term. Seniors. Two hours. Mr. Bluford.

VIII.—FARM CROPS.

Lectures upon the history, production, harvesting and marketing of farm crops. Practical exercises in harvesting and storing various staple crops. Preparation of soil and the seeding of fall and winter crops; practical exercises in draining land, fall plowing and the preparation of soil for spring seeding. Practical rotation of crops on one acre plats. For Freshmen and Seniors. Fall term; 75 actual hours. Mr. Mebane.

IX.—SPECIAL CROPS.

The seeding and harvesting of special crops, such as corn, tobacco, cotton, the clovers and the grasses. Practical exer-



Farmers' Conference.

cises in the rotation of these crops on one acre plats. For Seniors. Spring term, 75 actual hours. Juniors. Summer term, 320 actual hours. Mr. Mebane.

PHYSIOLOGY AND VETERINARY SCIENCE

I. The structure and function of the bones, muscles and joints are carefully studied. The various organs and their functions receive special attention; health laws, ventilation, influence of heredity, preparation and use of domestic remedies; disinfectants and their uses; sanitation and prevention of tuberculosis. For Freshmen. Three hours throughout the year. Text—Law's Physiology of Domestic Animals.

II.—VETERINARY SCIENCE. Three hours. Required Course I. Physiology.

The common diseases of farm animals are briefly discussed, together with remedies for same. Some practical work in caring for sick animals is also provided the student. Text—Veterinary Elements.—*Hopkins*. For Juniors. Spring term. Mr. Barnes.

ANIMAL HUSBANDRY AND DAIRYING

I.—ANIMAL BREEDING.

The student is taught the underlying principles of successful breeding; such subjects as atavism, variation, selection, heredity, line-breeding, cross-breeding and in and in-breeding are discussed. Collateral reading required. Text—Shaw's Animal Breeding. For Juniors. Fall term. Three hours. Mr. Atkins.

II.—BREED OF LIVE STOCK.

The origin, history and characteristics of the various breeds of cattle, sheep and swine are taken up. Especial attention is

given to the various types of dairy cattle and hogs. Whenever possible actual specimens are used to show the characteristics of the various breeds of animals. Excursions are frequently made to near by farms for the purpose of score card work. For Juniors. Winter term. Three hours. Mr. Barnes.

III.—MILK AND CREAM TESTING.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in the herd. He also becomes expert in testing cream for acidity according to, at least, two methods.

Lectures and recitation work will be given on the composition, secretion and production of milk. Fall term for Juniors. Three hours. A. L. Mebane.

IV.—BUTTER MAKING. Three hours. Required Course III.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc. For Juniors. Winter term. Mr. Barnes.

V.—MANAGEMENT OF DAIRY. 75 actual hours. Required Courses III. and IV.

The student is expected to go into the dairy and take charge of the work under the supervision of the instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making. Fall term. For Juniors. Mr. Barnes.

VI.—DAIRY INDUSTRY.

The cleaning of the dairy barn, the cleaning of cows and



Fure Bred Jersey.

milking; the cleaning of the dairy and dairy utensils. For Freshmen and Sophomores. Fall term, 75 hours; Winter term, 75 hours; Spring term, 75 hours.

C—HORTICULTURE AND BOTANY

I.—BOTANY. Five credits. Desired Course I. Horticulture.

Such subjects as how the plant takes up food from the soil and the atmosphere; the effect of sunlight, air and moisture on plants are noted, diseases of plants and remedies for same are discussed in an elementary way. Given in connection with Course I. Agriculture. Text: *Elementary Botany*.—*Bailey*. For Seniors. Spring term. Mr. Hampton.

II.—PROPAGATION OF PLANTS. Three hours.

Method of propagating plants by cutting, stolons, suckers, layering seed, etc., are discussed. The principles underlying budding, grafting and pruning are also discussed. Text: *Principles of Plant Culture*.—*Goff*. Freshmen. Fall term. Mr. Hampton.

III.—SMALL FRUIT CULTURE. Two credits. Required Course II. Horticulture.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the preparation of soil for same. Winter term. Juniors. Mr. Hampton.

IV.—MARKET GARDENING. 160 actual hours; 80 credits. Required Course II. Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, special fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: *Vegetable Gardening*.—*Bailey*. For Sophomores. Spring term. Mr. Wharton.

V.—POMOLOGY. Two credits. Required Course III. Horticulture.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit are discussed. Text: Fruit Growing.—*Bailey*. For Seniors. Winter term. Mr. Hampton.

VI.—LANDSCAPE GARDENING. 75 actual hours. Required Course V. Horticulture.

Principles of embellishing landscapes, planting and management of lawns, management of orchards, pruning, etc. Text: Landscape Gardening.—*Maynard*. Spring term. Seniors. Mr. Hampton.

ENTOMOLOGY AND BACTERIOLOGY

I.—ENTOMOLOGY. Three hours. Required Course VI. Horticulture. Text: Constock's Insect Life.

The subject is taught by means of lectures and the student is required to read upon topics assigned him by the instructor. The most common insects and insecticides are studied. For Seniors. Fall term. Mr. Hampton.

II.—BACTERIOLOGY. Three hours. Required Courses II. Horticulture and I. Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work. For Juniors. Fall and Winter terms. Mr. Barnes.

III.—PLANT DISEASES. Three hours. Required Course I. Horticulture.

Lectures and laboratory work. Common diseases, such as the cereal pests and insects; diseases of cotton, tobacco and fruit trees are studied with the aid of the compound microscope. For Seniors. Winter term. Mr. Hampton.



Milking Time.

D—POULTRY HUSBANDRY

The poultry work at the college has been recently added and is therefore on quite a limited scale, but it is expected that this important industry will take first rank at the college in the next few years. We have already two breeding pens with a number of outdoor home-made brooders and we are now planning to build an incubator cellar and to install several makes of incubators. We have recently purchased the following varieties of poultry: Rhode Island Reds, Partridge Wyandottes, and White Leghorns.

I.—POULTRY HUSBANDRY.

Construction and location of poultry houses; classification and study of the breeds of domestic poultry; breeding, feeding and management; diseases and remedies; production and marketing of eggs; incubation and breeding; capons and caponizing. For Freshmen, Preparatory and two-year students. Three hours, entire year. Mr. Wharton.

E—COURSES IN CHEMISTRY AND PHYSICS

EQUIPMENT.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recombination of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so com-

plete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and accessories, an Atwood's machine, Port Lummere and Stereopticon for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases, Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Leyden jars for induction and distribution of electricity, compound microscopes, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration with the stereopticon or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball-bearing balance, 50 cc. flasks with ground glass stoppers drawn out to an open capillary tube for specific gravity work; brass tubes $12\frac{1}{2} \times 1\frac{7}{8}$ inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture a set of brass tubes $16 \times 1\frac{7}{8}$ inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five glass tubes, $30 \times 1\frac{7}{8}$ inches inside measurement, for determining the capillary attraction of soils.

A detailed description of the courses offered by this department follows:

I.—GENERAL CHEMISTRY. Three credits. Required Course II. Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture rooms, which bear directly on and pave the way for Agricultural Chemistry. For Freshmen. Spring term. J. H. Bluford.

II.—GENERAL CHEMISTRY. Three credits. Required Course I. Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimeographed Notes. For Sophomores. Fall and Winter terms. J. H. Bluford.

III.—QUALITATIVE ANALYSIS. Three credits. Required Course II. Chemistry.

Laboratory work. During this term the student becomes familiar with testing and especially the elements which enter into the composition of plant and animal life. For Sophomores. Spring term. J. H. Bluford.

IV.—QUALITATIVE ANALYSIS. Two credits. Required Course III. Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Notes. Juniors. Fall term. J. H. Bluford.

V.—AGRICULTURAL CHEMISTRY. Two credits. Required Course IV. Chemistry.

Lectures on the chemical composition of soils, plants and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed. For Juniors. Winter and Spring term. J. H. Bluford.

VI.—QUANTITATIVE ANALYSIS. Five credits. Required Course IV. Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of

various agricultural products. For Seniors. Fall term. J. H. Bluford.

VII.—ANIMAL TOXICOLOGY. Two credits. Required Courses I., II., III. and IV. Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning; the pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc. For Seniors. Winter term. J. H. Bluford.

VII.—FEEDING. Five hours. Required Courses III. Agriculture and V. and VI. Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, market and food values of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding rations for the various farm animals are carefully considered. Collateral reading required. Text: *Feeding of Animals*.—*Jordan*. For Seniors. Spring term. Mr. Atkins.

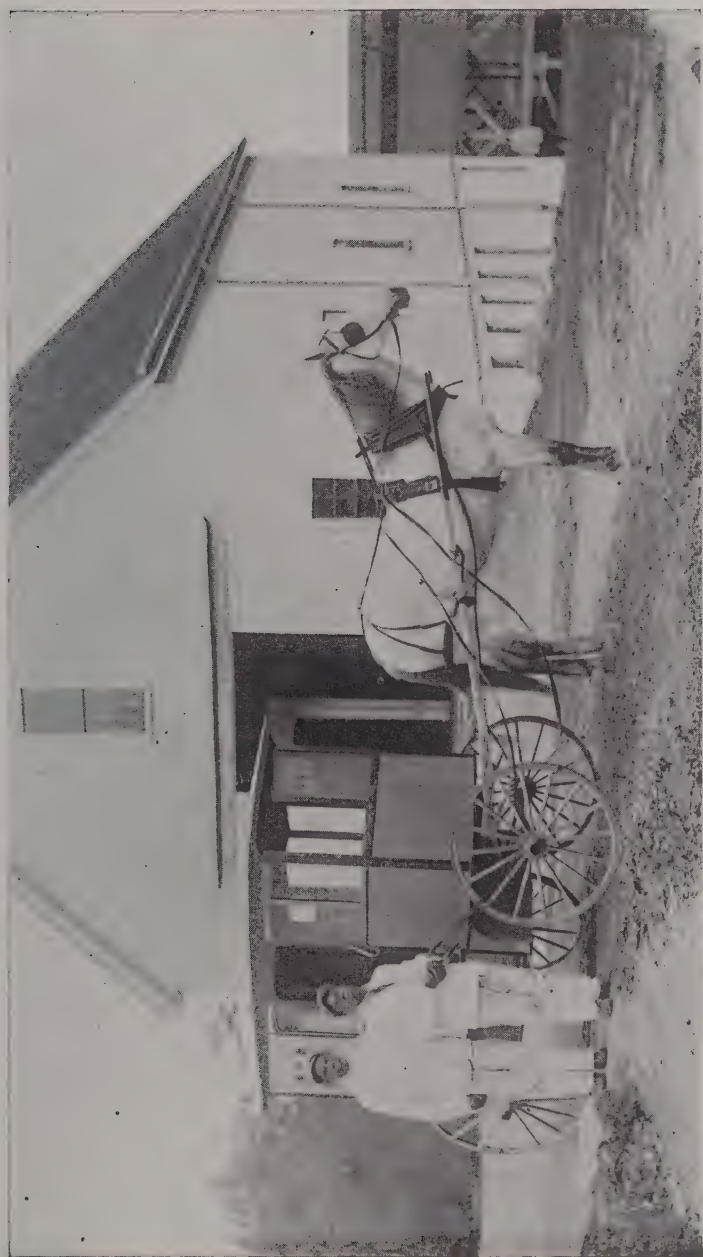
I.—PHYSICS.

The work of the first term consists of five lectures and recitations per week, the subjects covered being Mechanics, Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work. For Sophomores. J. H. Bluford.

II.—HEAT, MAGNETISM AND ELECTRICITY. Three hours. Course I. Physics desired. Course IV. Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring and hanging electric bells. Special attention is given to the various kinds of galvanic cells,



Milk Wagon.

their uses and relative values. The course is made as practical as possible, so that a student on leaving the college can take up the work of electrician.

III.—SOUND AND LIGHT. Three hours. Course II. desired, V. Mathematics.

This is a continuation of Courses I and II. and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

IV.—PHYSICAL LABORATORY WORK. Three hours. Courses I., II. and III. required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, Heat, and Electrical Measurements.

TRADE SCHOOL COURSE IN AGRICULTURE

FIRST YEAR TRADE CLASS.

DAIRY INDUSTRY. Credit three hours, divide as follows:

90 minutes—Cleaning the dairy and barn; washing utensils; separation and bottling of milk; sterilizing milk vessels.

45 minutes—Lecture on methods of cleaning; dairy sanitation; why it is necessary to have all milk vessels clean; methods of milking; nature of bacteria; pure water supply; how disease can be carried by the water and milk supply; hygiene of persons handling milk.

45 minutes—Farm Arithmetic with special reference to dairy problems; measurement of barns, silos and dairy utensils; calculating dairy ration; elementary feeding.

SECOND YEAR TRADE CLASS.

GREENHOUSE. Credit three hours, divided as follows:

90 minutes—Cleaning green house; watering plants; potting plants; making greenhouse soils; transplanting to field; plot work; budding; grafting; care of campus; making flower beds; planting bulbs.

45 minutes—Elementary horticulture text book; Plant Propagation by Goff.

45 minutes—Arithmetic—with reference to making of insecticides, fungicides and land measurement.

THIRD YEAR TRADE CLASS.

POULTRY INDUSTRY. Daily throughout year—credit three hours, divided as follows:

90 minutes—Care of poultry plants; whitewashing; disinfecting; mixing poultry feeds; feeding.

45 minutes—Poultry raising on the farm—Text book Watson.

45 minutes—Farm Arithmetic—Burkett.

FOURTH YEAR TRADE CLASS.

SOILS. Daily throughout year.

90 minutes—Study of various soil types, percolation of water through soils; specific gravity of soils; flow of air through soils; temperature of soils under varying conditions; capillarity of soils; water holding capacity of soils. Text Laboratory Manual—Stevens and Schaub.

45 minutes—Elementary Animal Husbandry—Text—Plumb's Animal Husbandry.

45 minutes—Farm Arithmetic—Completed text—Burkett and Swartzel.



Mechanical Building.

DEPARTMENT OF MECHANICS

JAS. B. DUDLEY, President.

F. C. JOHNSON, Director and Instructor in Mathematics.

W. N. NELSON, Instructor in Carpentry and Drawing.

C. L. FOSTER, Instructor in Blacksmithing.

A. D. WATKINS, Instructor in Masonry.

M. S. SANDERS, Instructor in Broom Making.

L. P. BYARM, Instructor in Machine Shop Practice and Drawing.

E. W. FISHER, Machine Wood Turning.

R. L. CAMPBELL, Instructor in Machine Shop Practice.

From the beginning of the first year the students' time is spent in the lecture room, draughting rooms and shops. Students will be given the opportunity of visiting the various manufacturing establishments of the vicinity where the practical applications of principles studied in the class rooms and laboratories.

The first four years' work in this department is a trade school course. The first year students rotate from shop to shop by terms during this year. After that time those wishing to graduate from a trade will be required to select some industry and continue in it for three years. A certificate will then be given for proficiency if the course has been satisfactorily completed. After that time, those wishing to graduate from the institution must take an additional year's instruction in some of the other shops and will perfect themselves in mathematics, science and drawing.

EQUIPMENT.

Buildings—The main building is a two-story brick structure with basement. On the first floor are located the carpenter, tin and machine shops. The exhibit room is also on this floor. In the basement are the machine woodworking and bricklaying

shops, also the power and heating plant. The second floor contains the recitation, reading and drawing rooms.

The blacksmith shop is located in a one-story brick building at the rear of the main building. This is an up-to-date shop with the most modern equipment. An electric motor furnishes the necessary power.

The broom shop is a one-story frame building. This building houses the finest broom factory in the city of Greensboro.

The reading room is provided with books of reference, and technical journals. Equipment in drawing consists of tables, drawing board and T squares. Students will provide themselves with instruments.

A dynamo has been installed and is used for experimental purposes and for lighting the shops. A central heating plant has recently been installed in the Mechanical Building. This furnishes opportunity to study the operations of an improved steam heating system. Instruction in the following lines of work has been provided:

Architecture, blacksmithing and general repairing, tinsmithing, machine shop practice, hand wood-turning, machine wood-working, bricklaying and plastering.

All instruction in shop work is given with the aid of blue prints or of sketches made by the student himself.

SUBJECTS OF INSTRUCTION.

I.—MECHANICAL DRAWING. Mr. Byarm.

Fall Term—During this term instruction is given in projection drawing.

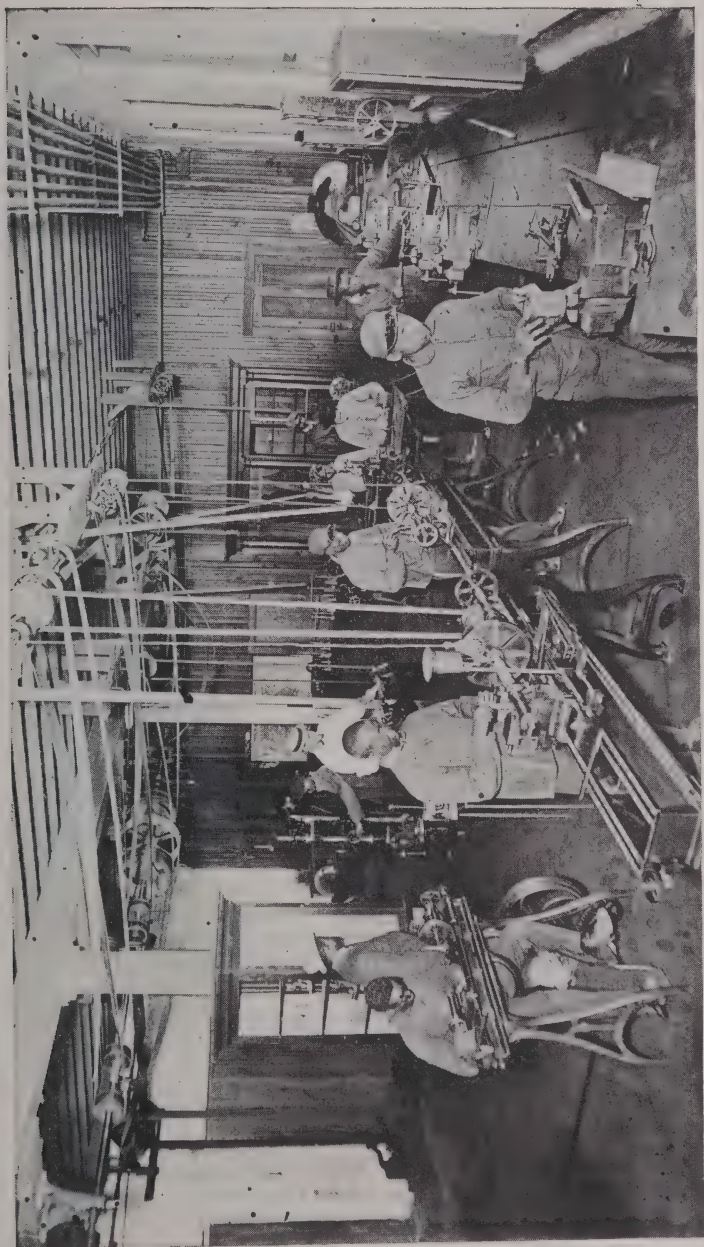
Winter Term—In this term the student is instructed in shading, and tracing drawings.

Spring Term—During this term the student is taught to make drawings of sections.

Four hours per week during Sophomore year.

II.—ADVANCED MECHANICAL DRAWING. Mr. Johnson.

In this course the student begins the study of machine and



Machine Shop.

architectural details and makes his drawing from measurements taken by himself.

III.—MACHINE DRAWING. Mr. Byarm.

The student prepares for machine design by familiarizing himself with the proportions and the arrangement of various machines and their parts. The student begins with the work of dimensioning of elementary machine parts from sketches in magazines, text books and of machines in the shops. This leads gradually to the making of working drawings of machines. Two two-hours periods per week throughout the Junior year.

IV.—MACHINE DRAWING AND DESIGN. Mr. Byarm.

At first the student is taught the design of tools and machines by having him consult freely the trade catalogues, and the working drawings of manufacturing concerns. One two-hour period throughout the Senior year. In addition to the machine drawing the students are given a brief outline of the various principles of mechanics. The necessary theory for proportioning screws, bolts, keys, cutters, shafting, couplings, hangers, belts and rope drives, friction and tooth gearing and engine parts are given. Two two-hour periods per week throughout the Senior year.

V.—MATERIALS. Messrs. Foster, Watkins and Nelson.

The student studies the principal materials that are used in building construction and in machine construction. Their uses, strength and general characteristics are discussed. The course is given in two one-hour periods during Sophomore year.

VI.—STRENGTH OF MATERIALS. Mr. Johnson.

This course consists of a review of the principles of mechanics applicable to the strength of materials at rupture, the methods of manufacture and the methods of testing. The mechanical theory of the subject is mainly discussed. The solu-

tion of practical problems forms a large part of this work. Two one-hour periods during first term of Senior year. Text-book: Merriman's *Strength of Materials*.

VII.—HYDRAULICS. Mr. Byarm.

Hydrostatics and the flow of water over weirs, and through orifices, pipes, and open channels are considered. Two one-hour periods during first term of Senior year. Text-book: Merriman's *Hydraulics*.

VIII.—HYDRAULIC MOTORS. Mr. Byarm.

This course is designed to make the student familiar with the several types of water wheels which are in common use today. The mechanical theory of the turbine and Pelton wheel is developed in detail. Two hours per week during the second term, Senior year. Text-book: Merriman's *Hydraulics*.

IX.—STEAM ENGINES. Mr. Campbell.

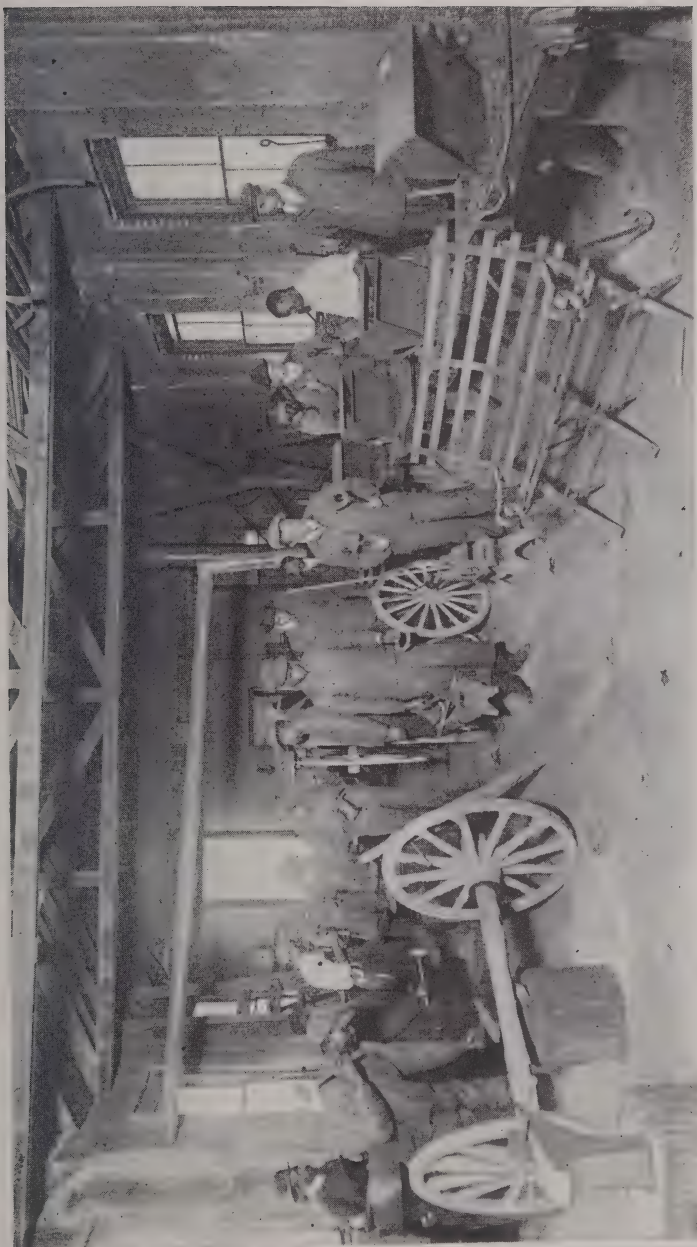
The following subjects are treated: Types—simple, compound and triple expansion, automatic, rotary and turbines; care and management; indicators, indicated and brake horse power. Steam pumps are also considered in connection with steam engines.

A descriptive study of the various types and makes of steam generators in common use and the adaptability of each type to special localities is made together with a consideration of combustion of fuels, boiler settings, boiler accessories, legal requirements. Three one-hour periods first and second terms of the Junior year.

X.—MECHANICS. Mr. Johnson.

This subject will be given throughout the Sophomore year. During the first and second terms the mechanics of solids will be taken up. During the spring term the mechanics of fluids and gases will be studied.

Blacksmith Shop.



Special attention will be given to the graphical solution of all problems where such solutions can be used to advantage.

XI.—POWER PLANT DESIGN. Mr. Byarm.

During the second term of the Senior year the student makes a complete study of power plants, including engines, boiler, pumps, and the most important features. One two-hour period.

XII.—ELEMENTS OF ELECTRICAL ENGINEERING. Mr. Campbell.

This subject is begun in the Junior year with lectures and includes the practical application of electricity for power and lights. During the second and third term of the Junior year the student does laboratory work, which is at first elementary in character, with a view of initiating the student into the methods of connecting circuits, the making of measurements and the use of common apparatus and instruments.

XIII.—HEATING AND VENTILATING. Mr. Byarm.

The course comprises lectures upon the various methods of heating and ventilating buildings. The systems of heating are developed from the fire place to the most modern systems of the day. In connection with the course the student may take practical work in steam-fitting and tin work adapted to furnaces and stoves. For Juniors, second term.

XIV.—GAS ENGINES. Mr. Campbell.

The aim of this course is to give such theoretical knowledge of the working of the two and four cycle gas engine that the student will be able to make ordinary repairs intelligently. There are two gasoline engines in the laboratories of the department that are used for practical demonstrations. The great popularity of the automobile makes it very desirable that every student graduating from a mechanical school should have a knowledge of the gas engine. Course XII. required. Two hours per week during the spring of Junior year.

XV.—MECHANISM. Mr. Johnson.

This course aims to give as clearly and concisely as possible the principles of mechanical motion so that they may be applied to any mechanism for determining the motion of its parts and to show the methods of dealing with problems of machine design. Two hours per week during Spring term Junior year.

ARCHITECTURE

XVI.—ELEMENTS OF ARCHITECTURE AND ARCHITECTURAL DRAWING. Mr. Nelson.

The evolution of the Art of Building is considered and the artistic achievement—planning, decoration of each of the periods is studied with reference to its structural methods, materials and conditions.

The student is given the classical orders to draw out in order to accustom his eye and mind to good architectural proportions. Great stress is laid on getting the student to the stage where he can draw well, be neat and exact in pencil, pen, and wash drawings. Junior year. Four hours per week.

XVII.—ARCHITECTURAL DRAWING. Mr. Nelson.

The problems of this year are given to teach the student to think and reason correctly. In the Senior year the problems become more extensive. The student is made acquainted with the principles underlying the design of different kinds of buildings and the various requirements for such design. The work covers the Senior year.

XVIII.—ESTIMATES AND SPECIFICATIONS. Mr. Nelson.

The student is taught to estimate the cost of the different buildings that he designs and various problems are given him in order to familiarize him with usual methods of making estimates.



Carpentry Shop.

The student is taught the requirements of a good specification; what should be included and what omitted; the relation of specification to working drawings. Two hour periods, first and second terms Senior year. Text—to be selected.

SHOP WORK

I.—CARPENTRY. Mr. Nelson.

The course in carpentry is designed to cover four years. Each student is given instruction in house carpentry, shop carpentry, cabinet making, wood carving, wood turning and practice on wood-working machinery.

The I. Year Trade class will do Elementary Sloyd work and Whittling. Only simple tools will be used. The models to be made will consist of pencil sharpener, small cart, kite, doll furniture, etc. Text: Elementary Sloyd and Whittling.—*Larson*.

The II. Year Trade class will do Advanced Sloyd work, which consists of making various articles useful about the home, such as match box and strike combined, whisk broom holder, shelf, bread-cutting board, tooth brush shelf, towel rack, book rack, key rack, picture frames, etc.

In the III. Year Trade class the student is given exercises in planing, squaring, gauging, sawing, laying off lines and dimensions. The different joints of carpentry are made. In the IV. Year Trade class the student makes practical applications of the first, second and third years by making articles of furniture and doing simple building.

The Freshman class will do exercises in house framing, laying floors, weather-boarding and general carpentry.

The Sophomore class will continue framing and general carpentry. Exercises in roof construction and putting up cornice will be given.

Junior class will do stair building and special work in roof construction in addition to practice on wood-working machinery, wood carving and turning.

During the fourth year the student takes advanced work in carpentry, pattern work, cabinet work, and shop management and building supervision.

II.—HAND WOOD TURNING COURSE. Mr. Fisher.

Short lectures pertaining to the handling of lathes, the names of the different parts, their use and how to take care of them. Demonstration lessons in wood turning and how the tools are used will be given.

FIRST YEAR.

Fall Term—Names of tools, the kind of work each tool is intended for, how to grind and keep in order. Simple cylindrical and tapered turning.

Winter Term—Practice in beading and baluster turning.

Spring Term—Miniature column turning.

SECOND YEAR.

During this year students are instructed in face plate and spindle turning, such as cups, rosettes, and different forms of hollow turning.

III.—MACHINE WOODWORKING. Mr. Fisher.

Instruction and short lectures pertaining to the handling of machines; names, parts and care of the same. Special instruction will be given on variety saw mitering, dadoing, ripping fence, cutting off work to desired length. Practical instruction on variety lathe turning chain spindles, mallets, knobs, and variety turnings also practice in band sawing, jointing and surfacing.

During the course students will be given practical instruction in belt lacing, splicing belts, also practical course in mill-wrighting in connection with the work.

There will be grinding and setting up machines for the various kinds of turnings as the student advances in this line of work.



Machine Wood Turning.

IV.—FORGING. Mr. Foster.

The regular course in blacksmithing will consist of all kinds of welds, repairing wagons, buggies, and farm machinery; special stress on horse and the study of the hoof; wheelwrighting, making spokes, hubs, rims, axles, etc., building wagons and buggies divided as follows:

First Year Trade Class—The care of fire, the use of hammer and care of the tolls, making staples, hooks, rings, chains, and lessons from blue prints Nos. 1 to 12 are taught.

Second Year Trade Class—Drawing out tools and tempering and making corner welds, butt welds, tie welds, different heats for proper iron and steel welds are taught. Lessons are taken from blue print Nos. 12 to 24.

Third Trade Year—Banding, strapping, twisting, upsetting, bolt making, thread cutting, and general tool making make up this year's work. Lessons are from blue prints Nos. 24 to 36.

Fourth Year Trade Class—Wagon building, cutting and welding tires, welding buggy axles, shoeing horses, forging tools and tempering steel complete the course.

V.—TINSMITHING.

The student who takes sheet metal work must do considerable work in draughting patterns. The first year is devoted largely to familiarizing the student with the various tools, machines and materials used in the trade, and in cutting and plain soldering. During the second year sheet iron work is introduced, also riveting, bending, guttering, making cans, cups, etc., from patterns.

During the third year the student is taught how to draft patterns and work from his own designs. He does work during the year in the following: Brazing cornice, stamping, joining cast iron, wrought iron, brass and lead pipes, furnace work, ornamental tin and exhibition work. The course covers three years.

VI.—BRICKLAYING. Mr. Watkins.

The course in Bricklaying is designed to cover the four years of Trade School work. Each student is given practical instruction in house planning and building, concreting, tile making, chimney construction, inside plastering and stucco work.

First Year Trade—Names and use of tools; making and spreading mortar; construction of plain four-inch walls; general helpers.

Second Year Trade—Instruction as to different bonds; small plumbing exercises; making rough concrete; general helpers.

Third Year Trade—Pier construction; pointing exercises; simple plastering exercises.

Fourth Year Trade—Laying to line; constructing plain corners; kalsomining.

Freshman Class—Laying to line; use of hair and commercial cements; exercises in bond work with reference to headers and stretchers.

Sophomore Class—Concreting; flue and fire-place construction; common arches; lathing; plastering.

Junior Class—Line work for speed; projectional exercises; scaffolding exercises; window and door frame cutting; fancy arch work.

Senior Class—Line work for speed and neatness; plastering—special stress on white-coating and sand finishing; press brick exercises; superintending work.

Practical work is sometimes interrupted by weather conditions. In these case talks are given on materials, estimates, contracting and other important subjects.

VII.—BROOM-MAKING. Mr. Sanders.

The course in broom-making is divided as follows:

FIRST YEAR TRADE CLASS.

Fall Term—Separating the insides from the hurls for brooms No. 0, separating No. 2 insides from No. 1 insides, grading the hurls and insides.



Bricklaying Shop.

Winter Term—Separating the insides from the hurls for brooms No. 5 and separating No. 2 hurls from No. 3 hurls and sizing the insides and hurls.

Spring Term—Separating the insides from the hurls for brooms No. 4, cutting the hurls and separating the cutting from the hurls for brooms No. 3, bursting and separating the stems from the hurls.

SECOND YEAR TRADE CLASS.

Fall Term—Separating the No. 1 long hurl from No. 1 short hurl. Separating No. 1 long insides from No. 1 short insides. Separating No. 2 long hurl from No. 2 short hurl. Separating No. 2 long insides from No. 2 short insides.

Winter Term—Grading insides for whisks and toys. Grading, sizing, cutting, bursting and dyeing.

Spring Term—Sewing and bunching brooms Nos. 4, 5 and 6.

THIRD YEAR TRADE CLASS.

Fall Term—Making of brooms.

Winter Term—Making of brooms and brushes.

Spring Term—Making of brooms, brushes and toys.

VIII.—MACHINE SHOP PRACTICE. Mr. Campbell.

The first year is spent in the blacksmith shop. There the student learns to forge and temper his tools and to work steel and wrought iron under the hammer. When the student comes into the machine shop he must bring with him two chisels and four lathe tools of his own forging.

Practically the entire second year is taken up with bench work—chipping and filing to size different exercises as called for in the blue prints furnished. The chief aim is to attain accuracy in modeling and finishing work with hand tools. During the spring term straight turning in cast iron is begun.

In the third year instruction is given in turning and boring

the different metals used in machine construction—gear cutting; drilling; planning and laying out work.

All work turned out by the students must pass a rigid inspection.

During the fourth year the student either alone or in conjunction with his classmates builds some machine of practical use.



Broom Shop.

ACADEMIC DEPARTMENT.

JAMES B. DUDLEY, President.

S. B. JONES, Director and Instructor in English and Physiology.

F. D. BLUFORD, Assistant in English.

CHARLES E. STEWART, Instructor in Music and General History.

D. K. CHERRY, Instructor in Mathematics.

W. F. COLEMAN, Instructor in History and Geography.

D. J. JORDAN, in charge of Teachers' Training Course and Supervisor of the Night School.

DESCRIPTION OF COURSES

ENGLISH.

The purpose of the course in English is to teach students to speak correctly, read with ease and intelligence, and to express their thoughts accurately and idiomatically in writing. For this reason oral composition figures largely in the course. Reading is carried through the four years. Especial emphasis is placed upon letter writing and short essays.

The work of the classes is arranged as follows:

FRESHMAN. F. D. Bluford, Instructor.

Fall Term—The elements of rhetoric as applied to description and narration. Letter Writing: Letter writing will be emphasized as an important form of composition—two themes each week.

Winter Term—Collection of material for a theme and development of both outline and theme. Careful attention will be

given to the essential qualities of the theme—two themes each week.

Spring Term—The nature and development of the paragraph as a unit of composition. Careful study will be made of the isolated and related paragraphs—two themes each week. Text Book: Lockwood's Composition and Rhetoric. Reading Literary Masterpieces of American Literature.

SOPHOMORE. F. D. Bluford, Instructor.

Fall Term—Review of parts one and two in Lockwood and Emerson's Rhetoric. The sentence from the viewpoint of Rhetoric. Words will be studied from the standpoint of their use in expressing various shades of meaning—two themes each week.

Winter Term—The important forms of prose, figures of speech.

Spring Term—Continuation of the work of the Winter Term. Text Book: Lockwood and Emerson's Rhetoric and Compositions—parts three and four. Reading—Literary Masterpieces completed.

JUNIOR. F. D. Bluford, Instructor.

Fall Term—Rhetoric is continued in the study of the laws of debate and argument. Careful attention is given to the making of briefs. A minute study of Burke's speech on Conciliation with America.

Winter Term—Rhetoric is continued with essays on current topic. Daily reviews of current events. Macaulay's Essay on Johnson is read.

Spring Term—The elements and qualities of style. Biographical sketches and reviews. Carlyle's essays on Burns will be read.

SENIOR. S. B. Jones, Instructor.

Fall Term—The principles of argumentation. Weekly themes. The reading and study of American and English au-

tohrs. Text-books will be used for reading, for practice in grammatical construction and as models of English composition. Themes on subjects connected with the various industries of the students will be required.

Winter Term—Continuation of the work of the fall term.

Spring Term—Completion of the work of the fall and winter terms. Students will be required in addition to prepare a thesis in connection with some phase of the industrial work of the college.

FRESHMAN.

GENERAL HISTORY. C. E. Stewart, Instructor.

Fall Term—Rise of the Germanic peoples. The effect of the Crusades on arts, science and commerce. Influence of Christianity in shaping the civilization of the Middle Ages. Current Events.

Winter Term—The Reformation in Europe. The period of absolute monarchy. The rise of democracy and the French and American Revolutions. Expansion of modern nations with special reference to the expansion of the United States. Current Events.

Spring Term—General Review. Current Events.

Text-book: *Myers' General History*.

SENIOR.

ECONOMICS. S. B. Jones, Instructor.

Winter Term—The scope of the science of economics. The principles of economics as applied to land, labor and capital. The economy of spending and saving; organization of production; meaning of value.

Spring Term—Money, credit and banking. Distribution of the products of economic effort—wages and profits. Public finance.

Text-book: *Ely-Wicker's Principles of Economics*.

MATHEMATICS. D. K. Cherry, Instructor.

The mathematics in this department is clear and practical. The aim is to give each student sufficient mathematics to enable him without difficulty to make the scientific research and investigation required in both the agricultural and mechanical departments. The following courses are offered: Algebra in the Freshman year; Plane Geometry in the Sophomore; Solid Geometry and Trigonometry in the Junior year; Surveying in the Senior year.

I.—ALGEBRA. Freshman.

Fall Term—General review. Special study of the equation. Simultaneous equations with graphical representation. Problems.

Winter Term—Involution and evolution. Theory of exponents. Radicals. Quadratic equations, with graphical representation. Problems.

Spring Term—Ratio and proportion. The progressions. The binomial theorem. Problems.

II.—PLANE GEOMETRY. Sophomore Year.

Fall Term—Geometric conceptions and magnitudes. The relation of Geometry to Algebra and Arithmetic. Simple constructions; angles and lines; geometry of the rectilinear figures. Book I.

Winter Term—Books II and III. The geometry of the circle will be followed by the geometry of similar polygons. Special attention will be given the similar triangle. The principle of stadia measurements will be explained. Application of the laws of proportion in similar polygons.

Spring Term—Books IV and V. Much attention will be given the geometry of areas. The principles of elementary surveying will be taught and actual field work will be done with simple hand-made instruments.

III.—SOLID GEOMETRY AND TRIGONOMETRY. Junior Year. F. C. Johnson, Instructor.

Fall Term—Lines and planes in space. The geometry of the pyramid, cone, sphere, etc.

Winter Term—Trigonometry. Scope and practical applications of trigonometry. Functions of angles. Logarithms. Solution of right triangles.

Spring Term—The oblique triangle. Areas of triangles. Practical applications.

IV.—SURVEYING. Senior Year. F. C. Johnson, Instructor.

Fall Term—Study is made of the use and care of instruments. Practical problems are worked out in the classroom and given immediate application. Copies of deeds are secured from which surveys are made. Practice is given in stadia measurements, and topographical drawings are made of plots and fields in the vicinity of the school.

Text-books: *Durell's School Algebra*; *Durell's Plane and Solid Geometry*; *Durell's Trigonometry and Surveying*.

TRADE SCHOOL COURSE

FIRST YEAR TRADE.

NORTH CAROLINA HISTORY. D. J. Jordan, Instructor.

The State history is studied to give the students such a knowledge of the development of the State in order to enable them to understand better our present age of progress, and with a view that it may arouse a greater love for the State.

A mastery of the chief facts of history is required, but they are studied as landmarks in great movements and not as isolated facts, to the end that a sense of the unity and continuity of history may be preserved.

Fall Term—The beginning of North Carolina history. The settlement and developing of North Carolina.

Winter Term—A study of the governors of North Carolina and their work before the Revolution and after.

Spring Term—The present day history of North Carolina. A close study of the progress made in North Carolina from the time of the Revolution to the present day.

Text-book: *Hill's Young People's History of North Carolina.*

FIRST YEAR TRADE.

ENGLISH. Pres. J. B. Dudley and F. D. Bluford, Instructors.

Language work is begun; the student is taught to express simple ideas gathered from his own experience in the various industries of the college or suggested by stories and pictures. Special attention will be given to the elementary principles of Grammar, such as the use of capitals, punctuation, abbreviations, simple paragraphing and letter writing. In the Spring term short themes on the students' trade work will be required.

Text-book: *Emerson and Bender, Book One.*

FIRST YEAR TRADE.

READING. W. F. Coleman, Instructor.

The aim of this course is to train the discriminating power, express activity, strengthen the moral sentiment and memory, and establish the capacity for intelligent, fluent reading in the student. Great pains are taken to secure alluring and instructive reading without sacrificing simplicity of thought and expression.

Text-books: *Baker-Carpenter Series.*

FIRST YEAR TRADE.

GEOGRAPHY. W. F. Coleman, Instructor.

Fall Term—The first part of the year's work is local and is

based on the observation of the student. (a) Direction, distance, color, form; (b) Weather charts.

Winter Term—The work for this and the following term is foreign and depends upon the imagination of the student. It is stimulated by pictures, stories, vivid descriptions and a set of geographical charts recently purchased by the college. (a) Conception of the world as a whole; (b) Different types of people; (c) Imaginary excursions.

Spring Term—Local occupations.

Text-book: *Dodge's Primary Geography*.

FIRST YEAR TRADE.

ARITHMETIC. D. K. Cherry, Instructor.

Fall Term—Review of the four fundamental operations with numbers consisting of as many as eight figures. Cancellation. Reading, writing, and reduction of simple fractions. Addition and subtraction of fractions.

Winter Term—Review of all previous work; multiplication and division of fractions; miscellaneous practical problems illustrating the use of principles learned; reduction of complex fractions.

Spring Term—Thorough review of the work of the fall and winter terms; fractional relations; aliquot parts of 100.

Text-books: *Noble and Stevens' Primary Arithmetic*; *Milne's Arithmetic, Book III*.

FIRST YEAR TRADE.

MUSIC. Charles E. Stewart, Instructor.

Fall Term—Study of the simple rudiments of music, such as the staff, the notes, the rests. Rote singing for the voice and ear.

Winter Term—Practice in the writing of notes and signs. Begin a study of the keys and reading. Elementary sight singing.

Spring Term—How to sing in the key of "C." Study of

simple melodies in the easy keys. Sight singing and ear training.

SECOND YEAR TRADE.

ENGLISH. F. D. Bluford, Instructor.

The study of formal grammar is begun. Special mention is given to the formation and application of rules and definitions concerning the grammatical structure of the sentence. Study of analysis and inflection is emphasized and the special rules for the use of the various cases are studied and applied. Careful attention is given to the development of the paragraph, and the rules and convention governing the various forms of correspondence will be emphasized.

Text-book: *Emerson & Bender—Modern English, Book II.*

SECOND YEAR TRADE.

U. S. HISTORY. D. J. Jordan, Instructor.

The chief epochs and crises showing growth and natural development will be studied to encourage and strengthen the sentiment of patriotism.

Fall Term—Condition of Europe in the 15th century. Period of discovery.

Winter Term—Settlement of the Thirteen Colonies. Colonial wars. Great westward movement.

Spring Term—Period of the Revolution. Critical Period. Making of the Republic.

Text-book: *Our Republic (Chandler).*

SECOND YEAR TRADE.

GEOGRAPHY. W. F. Coleman, Instructor.

Fall Term—Principles of geography. Geography of the United States, Dominion of Canada, Mexico.

Winter Term—Trade and navigation. South America, Europe, Asia, Africa.

Spring Term—Australia, Philippine Islands, Oceania. General Review.

Text-book: *Dodge's Comparative Geography*.

SECOND YEAR TRADE.

READING. W. F. Coleman, Instructor.

The aim of this course is to train the discriminating power, express activity, strengthen the moral sentiment and memory, and establish the capacity for intelligent, fluent reading in the student. Great pains are taken to secure alluring and instructive reading without sacrificing simplicity of thought and expression.

Text-books: *Baker-Carpenter Series*.

SECOND YEAR TRADE.

FREEHAND DRAWING. W. F. Coleman, Instructor.

Fall Term—Autumn leaves, branches, trees. Pencil painting. Calendar making.

Winter Term—Story illustration. Construction work.

Spring Term—Budding twigs; flower painting; landscape.

SECOND YEAR TRADE.

ARITHMETIC. D. K. Cherry, Instructor.

Fall Term—Review of fractions; analysis of problems; miscellaneous problems.

Winter Term—Denominate numbers; longitude and time; reviews.

Spring Term—Metric system; practical measurements; temperature, lumber, roofing, flooring, plastering, painting, papering, and carpeting; miscellaneous review problems.

SECOND YEAR TRADE.

MUSIC. Charles E. Stewart, Instructor.

Fall Term—Physiological construction of the singing ap-

paratus and the functions of the different parts. Written and drawn work. Study of the keys of "C" and "G."

Winter Term—Unison singing of simple melodies. Study of the keys of "C," "G," "D," "A." Sight singing and reading exercises.

Spring Term—Duet singing from sight work. Study of the tone work in voice production.

THIRD YEAR TRADE.

ENGLISH. W. F. Coleman, Instructor.

Fall Term—Review of the parts of speech. The study of the sentence. Oral and written composition.

Winter Term—Composition continued. Analysis and diagramming of sentences. Letter writing.

Spring Term—Letter writing and composition continued. Parsing.

Text-book: *Emerson and Bender's Modern English Book II.*

THIRD YEAR TRADE.

UNITED STATES HISTORY. D. J. Jordan, Instructor.

Fall Term—War of the Secession.

Winter Term—Period of Development.

Spring Term—Period of Development (continued). General review. Historical discussions from the newspapers.

Text-book: *Chandler's Our Republic.*

THIRD YEAR TRADE.

PHYSICAL GEOGRAPHY. W. F. Coleman, Instructor.

Fall Term—The earth as a globe. The atmosphere. The ocean. Shore lines.

Winter Term—The land; planes and plateaus; mountains; volcanoes.

Spring Term—River valleys; glaciers and deserts; distribution of plants, animals and man.

Text-book: *Davies' Physical Geography.*

THIRD YEAR TRADE.

PHYSIOLOGY AND HYGIENE. S. B. Jones, Instructor.

The aim of this course is to teach the student to understand the elementary functions of the body so that he may apply this knowledge to the practical safeguarding of his own health and that of his community.

Fall Term—the Physiology of Bone, Muscle, Foods and Digestion.

Winter Term—The Physiology of the Circulation, Respiration, Skin and Nervous System.

Spring Term—Elementary Hygiene. Bacteria and their Relation to Man. Preventable Diseases. Personal Hygiene. The Sanitation of the Home.

Text-books: *Lippincott's Physiology Book III*; *Ritchie's Primer of Sanitation*.

THIRD YEAR TRADE.

FREEHAND DRAWING. W. F. Coleman, Instructor.

Fall Term—Autumn growths—grasses, weeds, sedges, seed pods; landscapes; perspective.

Winter Term—Decorative treatment—treatment that does not seek to express fact or reality, but aims to express arrangement of lines, masses, or color whether from natural or abstract motives in accordances with the principles of design. Book designs, stencil designs, programme designs, portfolios.

Spring Term—Spring flowers; animal drawing; still life drawing.

THIRD YEAR TRADE.

ARITHMETIC. D. K. Cherry, Instructor.

Fall Term—Rapid review of previous work; percentage and all of its applications.

Winter Term—Interest—simple, compound and annual; promissory notes; banking; exchange.

Spring Term—Stocks and bonds; ratio and proportion; powers and roots; mensuration; general review.

THIRD YEAR TRADE.

MUSIC. Charles E. Stewart, Instructor.

Fall Term—Study of and sight reading in the keys of "C," "F," "Bb," "Eb," "Ab," "Db." Singing and reading exercises.

Winter Term—Singing and reading exercises and tone work.

Spring Term—Sight singing in the various keys studied. Quartette and chorus work.

FOURTH YEAR TRADE.

ENGLISH. W. F. Coleman, Instructor.

Fall Term—Review of the sentence. Advanced study of the sentence.

Winter Term—Analyzing and diagramming different sentences, clauses and phrases. Composition.

Spring Term—Sentence study continued. Letter writing and composition. Special emphasis is laid on purely business English.

Text-book: *Emerson and Bender's Modern English Book II.*

FOURTH YEAR TRADE.

CIVICS. D. J. Jordan, Instructor.

"The ideal citizen is the man who believes that all men are brothers, and that the nation is merely an extension of his family, to be loved, respected and cared for accordingly."—Haber-ton.

The chief aim of the instruction in civics is to train the student for intelligent and conscientious participation in civic activities.

The pupils are urged to watch the daily newspapers for items of practical interest. A record of these items and their

own observations is kept in a note-book and furnishes concrete illustration to the general descriptions of the text-book.

The student is encouraged to visit charitable, penal and educational institutions, established and maintained by the commonwealth in order that he may more thoroughly understand the responsibilities and obligations devolving upon the citizen.

Fall Term—Fundamental principles of civil government. Formation of the government of North Carolina.

Winter Term—Study of the government of North Carolina in operation.

Spring Term—Qualifications, rights and duties and responsibilities of citizenship.

Text-book: *Peele's Civil Government*.

FOURTH YEAR TRADE.

FREEHAND DRAWING. W. F. Coleman, Instructor.

Fall Term—Expressing simple forms by lines. Study of the position and proportion of figures. Pictorial work. Especial attention is given to characteristic sketches for each month.

Winter Term—Pictorial work continued. Design; decorative and constructive design.

Spring Term—Pictorial work continued. Out-of-door study; pencil and water color work. Plant study.

FOURTH YEAR TRADE.

ALGEBRA. D. K. Cherry, Instructor.

Fall Term—Review of the most important topics in arithmetic; elementary algebra; symbols and fundamental principles; solution of simple equations and problems; negative numbers; addition and subtraction of algebraic expressions, parentheses.

Winter Term—Review of previous work. Multiplication and division of algebraic expressions; solution of equations; abbreviated methods in multiplication and division.

Spring Term—Factoring; highest common factors and low-

est common multiple; fractions and processes with fractions; fractional and literal equations. Reviews.

Text-book: *Durell's School Algebra*; *Milne's Arithmetic Book III*.

FOURTH YEAR TRADE.

MUSIC. C. E. Stewart, Instructor.

Fall Term—General review of the major keys, sight singing, written work.

Winter Term—Duet, quartette and chorus work. Individual work before the class.

Spring Term—General review of the Trades School work, making drawings of the vocal organs and drawings of musical features. Sight singing and tone work.

FOURTH YEAR TRADE.

BOOKKEEPING. M. Goins, Instructor.

Fall Term—Double Entry—Study of Debits and Credits, Study of the various accounts, Capital, Cash, Merchandise, Personal, Profit and Loss, Journal, Ledger and Trial Balance Books, Balancing and Closing of Accounts. Commercial Correspondence—Study of Business Papers and Letters, Modes and Forms of Expressions, Instruction as to Filing Letters and Papers.

Winter Term—Posting, Ruling, Balance Sheet, Passbook, Writing Checks, Closing Ledger, Partnership, Exercises in Commercial Correspondence.

Spring Term—Closing out of a Business. Resources and Liabilities, Commercial Law and Business papers. Contracts—Construction, Arrangements, Essential Elements, Persons Competent to Make Contracts. Partnership—Advantages and Disadvantages, Rights, Duties. Corporations—Powers and Liabilities, Advantages, Formation, Laws Governing Them. Agency—How Created; Principal—His Duties, Rights and Liabilities; Agent—His Duties, Rights and Liabilities. Negotiable Papers

—Notes, Bonds, Money Orders, Drafts, Endorsements, Protest, Duties of Holder. Legal Papers—Deeds, Deeds of Trust, Mortgages, General Principles governing same.

Text-book for Bookkeeping: *The Twentieth Century Book-keeping and Office Practice*. J. W. Baker, Knoxville, Tenn. Practical Law. Ellis Publishing Co.

FOURTH YEAR TRADE.

GENERAL HISTORY. C. E. Stewart, Instructor.

Fall Term—Ancient History—contributions to modern civilization of Egyptians, Assyrians and Babylonians, Hebrews and Phoenicians.

Winter Term—The story of the Greek people. How they saved Europe to democracy. Influence of Greek civilization upon the life of modern nations.

Fall Term—The rise of Rome. Influence of Rome on the modern world.

Text-book: *Myers' General History*.

MUSIC—CHAS. E. STEWART, Director.

The work in music is a practical study beginning with the rudimentary elements and moving progressively through the course as outlined in the New Educational Music Course. This work, however, is supplemented by much work of value to the students. The A. and M. College Choral Club is an organization for the study and rendition of musical works and gives very excellent opportunity for practice and study.

The A. and M. College Band affords opportunity for those wishing to be actively engaged in the study of the wind instruments while the orchestra appeals to those interested in the study of the stringed instruments. Young men wishing to join any of these organizations must be at the school and ready for work as soon as possible in the early part of the Fall term,

as the band and orchestra cannot accept performers after this time unless by special arrangement.

Those contemplating buying orchestral or band instruments with the intention of joining the band or orchestra should consult the instructor before doing so. All members of the band must be uniformed.

Those wishing to make a special study of the piano, or voice will be given opportunity to do so at small cost.

COURSE OF STUDY

Trade School Classes

FIRST YEAR.

Fall Term—Rote songs for the development of the sense of tonality and rhythm using the sol-fa syllables and words.

Winter Term—Eye training and use of elementary symbols.

Spring Term—Development of the rote song through ear training and adapting the rote song to the presentation of symbols and keys.

SECOND YEAR.

Fall Term—Review work, individual and class drill in singing exercises from dictation and the board.

Winter Term—Reading and singing melodies from the book and original exercises from the board in various keys.

Spring Term—Sight singing and ear training in the simple keys.

THIRD YEAR.

Fall Term—Review, eye training from the staff using board work.

Winter Term—Short review, use of two notes to one beat.

Spring Term—Sight singing and rhythmic practice.

FOURTH YEAR.

Fall Term—Sight singing in the various keys and beginning in singing sharp four.

Winter Term—Singing in 3-4, 2-4 and 4-4 measure. Extended work in sharp four, five, and flat seven.

Spring Term—Singing two part songs as a development of previous work.

College Classes

FRESHMAN.

Fall Term—Review work, singing the dotted eighth and 6-8 measure.

Winter Term—Singing two part melodies and transposing.

Spring Term—Singing two part melodies in various measures.

SOPHOMORES.

Fall Term—Singing in all the sharps and flats. Beginning of the minor modes.

Winter Term—Three part singing.

Spring Term—Singing and transposing in all the keys.

JUNIORS.

Fall Term—Transposing and singing in three parts using the various measures.

Winter Term—General singing in the parts and beginning of a study of syncopation.

Spring Term—Chorus and individual singing.

SENIORS.

Fall Term—Two, three and four part singing.

Winter Term—Continuation of the singing and transposing and a study of the lives of the famous composers.

Spring Term—Chorus singing and a study of the organiza-

tion of various musical societies. Transposition of some large work.

NIGHT SCHOOL—D. J. JORDAN, Supervisor.

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best that the conditions will permit will be given, and students attending the night school may eventually arrange to enter the day school. Courses completed in the night school receive the same credit as if completed in the day school.

It is especially desirous that the young men of the city who are employed during the day will avail themselves of this opportunity.

To enter the night school, the applicant should be sixteen years of age, and he should first secure work. This may be done by sending written application immediately to The President, A. & M. College, Greensboro, N. C.

ROSTER OF NIGHT SCHOOL

Days	7—8	8—8.30	8.30—9	9—9.30
Monday.....	Arithmetic..	English.....	U. S. or N. C. History.....	Writing....
Tuesday.....	Arithmetic..	English.....	Geography....	Reading and Spelling..
Wednesday....	Arithmetic...	English.....	U. S. or N. C. History.....	Writing....
Thursday.....	Arithmetic..	English.....	Geography....	Reading and Spelling..
Saturday.....	Arithmetic...	English.....	U. S. or N. C. History.....	Writing....

TEACHERS' TRAINING COURSE—D. J. JORDAN, Director.

PURPOSE.—The demand for better prepared teachers is well-nigh universal, and is constantly increasing in force. Nowhere is the need more strongly felt or the call more urgent than in the country districts, where the majority of Negroes live. Good schools in a community attract a better class of laborers and do much towards bringing contentment, peace and consequent prosperity to those already there.

To meet this demand and to afford teachers who desire to prepare themselves thoroughly for their task, an opportunity to do so under most favorable conditions, this course has been established.

EXTENT OF THE COURSE.—At present the course requires one year of residence work in the subjects indicated below, but will be extended and improved from time to time as may be found necessary.

ADMISSION.—Graduates of the A. & M. College, the State Normal Schools at Winston-Salem, Fayetteville and Elizabeth City, and of schools of similar or higher grade, will be admitted without examination. Men already engaged in teaching, but who are not graduates of accredited schools, may be admitted to the course under certain conditions and allowed to make up the work in which they may be deficient.

BENEFITS.—Students in this course will be permitted to share in the large opportunities and advantages offered in our well-equipped laboratories and work shops. Opportunities for practical teaching under competent direction are offered in the Night School.

It is intended to make the work so thorough and practical in every way as to deserve and receive the endorsement of the school authorities of North Carolina and elsewhere.

DIPLOMA.—An appropriate certificate will be given those who satisfactorily complete the course.

COURSES OF STUDY

FALL TERM.

EDUCATIONAL PSYCHOLOGY.—This is an elementary course in Psychology designed to be fundamental to the other courses, being a study of the laws of mental action and growth upon which the principles of teaching are based. Text-book: *Betts' "The Mind and Its Education,"* and lectures.

THE HISTORY OF EDUCATION.—A course in the study of educational theories and progress among the most important peoples from pre-Christian times to the present, and includes biographical sketches of some of the leading educational reformers. Text-book: *Painter's "A History of Education,"* and lectures. *Latin for Beginners," D'Ooge.*

WINTER TERM.

THE PRINCIPLES OF EDUCATIONAL PRACTICE.—A thorough study of the several phases and aspects of education and their relations to psychological and sociological principles. Text-book: *Klapper's "Principles of Educational Practice."*

SCHOOL ORGANIZATION AND MANAGEMENT.—This course offers a comprehensive study of the principles that underlie the organization and conduct of school-room affairs so as to secure the best results in comfort, health, good order, obedience to authority, and character development. *Bagley's "Class Room Management,"* and lectures. *"Latin for Beginners," D'Ooge.*

SPRING TERM.

ELEMENTARY PEDAGOGY.—A course which includes a clear and concise statement of the several teaching processes, the principles upon which they are based, their educational values and practical application in the every-day work of the class room. Text-book: *White's "Elements of Pedagogy,"* and lectures. *"Latin for Beginners," D'Ooge.*

CHILD STUDY.—A study of the conditions and needs of chil-

dren in their development and growth. Text-book: *Tracy's "Psychology of Childhood,"* and lectures.

FALL, WINTER AND SPRING TERMS.

MANUAL TRAINING.—Each student will be expected to take some one of the several industries taught at the college, and those who have not taken such work before will be required to do so as a pre-requisite to graduation. There is a great demand for teachers who can introduce manual training in their schools, and this course is offered to meet this demand.

PRACTICE TEACHING.—Throughout the session students will be required to teach, under proper direction, at least one class in our Night School.

NATURE STUDY.—A study of the more common and familiar objects of nature, such as animals, insects, plants, soils, stones, etc., with the purpose of preparing the student to helpfully and interestingly conduct Nature Study classes of young children. At first, emphasis will be laid on object lessons and drawings; but later, greater stress will be placed upon the more fundamental facts of the objects studied.

REVIEWS.—These reviews will be principally in Arithmetic, Grammar, Geography, History, Composition and Reading, the purpose being two-fold: (1) Better to prepare the student for passing the public school examinations, and (2) to illustrate good methods in teaching such subjects.

REQUIRED READING.—The following text-books are required to be read and reported upon by the students:

"Theory and Practice of Teaching."—*Page*.

"Human Behavior."—*Colvin and Bagley*.

"Teaching a District School."—*Dinsmore*.

"The Teacher and the School."—*Colgrove*.

"School Management."—*Dutton*.

"The Art of Teaching."—*White*.

Also the educational journals and magazines that come to our reading room.

LIST OF GRADUATES.

1899.

"No steps backwards."

- Cheek, W. T. C., B. S., State Normal School, Instructor in
Carpentry Winston, N. C.
Cunningham, I. C., B. S., M. D., Physician.....Owensboro, Ky.
Curtis, A. W., B. Agr., M. S. A., Head of Department of Agriculture,
West Virginia Col. Institute Institute, W. Va.
Falkener, E. L., B. Agr., Farmer Warrenton, N. C.
Joyner, J. M., B. Agr., Postoffice Clerk, care Clerks' Box C,
Philadelphia, Pa.
*Robinson, P. E. Raleigh, N. C.
*Watson, A. Greensboro, N. C.

1900.

"By our efforts we rise."

- *Best, C. H. Grove Hill, N. C.
Green, J. H., M. S., Medical Student, Temple Univ.... Philadelphia, Pa.
Moore, R. D., B. Agr., Postal Clerk Wilmington, N. C.
Neal, J. P., B. S. 1119 G St., N. E., Washington, D. C.
Plummer, E. S., B. S., Mechanic..35 West 21st Street, New York City
*Quick, J. R. Laurinburg, N. C.
Robinson, Chas., B. S., Official Photographer..Tuskegee Institute, Ala.

1901.

"Fortune favors the brave."

- Colson, E. F., B. Agr., Instru. in Agr. J. K. Brick Sch.... Enfield, N. C.
Edwards, G. A., M. S., Teacher, Manual Training, Shaw
University Raleigh, N. C.
Grimes, Frances T., B. S.....54 Mountain St., Asheville, N. C.

1902.

"After the contest, victory."

- Bullock, Mrs. H. A., B. S., Housekeeper.....Greensboro, N. C.
*Henderson, A. P., B. Agr. Chicago, Ill.
Hepler, T. H., B. Agr.
Holcome, A. J. P., B. Agr. Raleigh, N. C.
Garrett, Mrs. F. E. Teacher.....Greensboro, N. C.
Mebane, A. L., B. Agr., M. S. A., Farm Superintendent, A. & M.
College Greensboro, N. C.



Football Team.

Quinn, Wm., B. S., Plumber Raleigh, N. C.
White, W. A., B. Agr.

1903.

"More beyond."

Alexander, W. G., B. S., Engineer. 422 Elton St., Brooklyn, N. Y.
Amey, Chas. C., B. S., Bursar and Registrar, A. & M. College,
Greensboro, N. C.

Burnett, A. C., B. Agr., Teacher Agr.

Forney, H. G., B. Agr., Agriculturist, J. K. Brick School..Enfield, N. C.

Haywood, Burke, B. S., Mechanic.

Holmes, J. W., B. S., Architect, St. Augustine School...Raleigh, N. C.

Hunter, C. C., B. Agr. West Raleigh, N. C.

Jefferson, C. B., B. S. Warrenton, N. C.

McLendon, J. R., B. S.

Robinson, R. R., B. Agr., Instructor.....Tuskegee Institute, Ala.

Robinson, W. F., B. Agr., Asst. Florist.....Tuskegee Institute, Ala.

Yores, Edward, B. S.....824 N. 13th St., Philadelphia, Pa.

1904.

"Through the dust to the stars."

Chance, W. C., B. Agr., Pres. Parmele Industrial Inst....Parmele, N. C.

Edward, W. T., B. S., 607 Lincoln St., Wilmington, Del. (Siler City, N. C.)

Greenlee, Percy C., B. Agr.....111 Foot St., New Haven, Conn.

Jones, L. A., B. Agr..... Rocky Point, N. C.

Oldham, A. A., B. S., Architect.....Chestnut St., Greensboro, N. C.

Ramseur, L. L., B. Agr., Teacher.....Newton, N. C.

*Reaves, W. V. Glendon, N. C.

1905.

"Thus ends our first lesson."

Hooper, L. B., B. S...U. S. S. Des Moines, care Postmaster,

New York City

Johnson, J. I., B. Agr., Dairyman.....Detroit, Mich.

Lamb, W. M., B. Agr., Dairyman.....Charles City Court House, Va.

Richie, E. W., B. S. (Howard Uni.) . . 25 Wolwick St., Spartanburg, S. C.

Turner, R. R., B. S., Tinner.....West Raleigh, N. C.

Watson, P. P., B. S., Teacher of Man. Training, Mary Potter

School Oxford, N. C.

Specials.

Jones, G. W., Carpenter Mebane, N. C.

Prather, E. A..... Hayti St., Raleigh, N. C.

1906.

"Our Aim Victory."

Ford, I. R., B. S., Manufacturer.....Greensboro, N. C.
 Greenlee, N. B., M. D.....New York City
 Hawkins, J. A., B. S., Mechanic..... Cary, N. C.
 Johnson, W. T., B. Agr.....Hodge street, Greensboro, N. C.
 McRae, S. D., B. Agr., Principal Graded School.....Sanford, N. C.
 Rand, John Milton, B. Agr., Contractor.....Washington, D. C.
 Stewart, Needham, B. Agr., Dairyman..520 W. Market St., Greensboro

Special, With Short Course Certificates.

Baldwin, M. L., Rev.Wilmington, N. C.
 Lee, Jas. A. Thomasville, N. C.
 Faduma, Orishatukeh, Rev., Instructor N. R. T. School..Durham, N. C.

1907.

"Climb tho' the rock be rugged."

Caesar, Robert, B. Agr., Stonecutter.....Mount Airy, N. C.
 Carter, O. H., B. Agri., Farmer.....Route No. 1, Fayetteville, N. C.
 Donnell, Clyde, B. Agr., Med. Student, Harv. Univ., Cambridge, Mass.
 Davis, Chas. G., B. S., Teacher of Manual Training, Normal
 School Henderson, N. C.
 Keck, William, B. Agr., Teacher.....Guilford College, N. C.
 Rivera, T. A., B. Agr., Bookkeeper.....Fayetteville St., Durham, N. C.
 Scott, Chas. A., B. Agr., Contractor...520 Spruce St., Goldsboro, N. C.
 Smith, Edward, B. S.....911 E. Market St., Greensboro, N. C.
 Truman, J. C., B. S.....826 Nebraska Ave., Kansas City, Kansas
 Williams, M. W., B. Agr., Teacher.....Halifax, N. C.

Special.

*Leach, ThomasPittsboro, N. C.

1908.

"Lifting as we climb."

Alston, A. J., B. Agr. Arcola, N. C.
 Bailey, N. A., B. Agr., U. S. Farm Demonstrator, A. & M.
 College Greensboro, N. C.
 Baldwin, Seaton, B. S..... Philadelphia, Pa.
 Cotton, Samuel, B. S.
 Darden, A. N., B. Agr.....110 Pender St., Wilson, N. C.
 Flow, Baxter D., B. Agr.....care Eagle's Drug Store, Charlotte, N. C.
 Foster, Chas. L., B. S., Teacher of Blacksmithing, A. & M.
 College Greensboro, N. C.
 Harrison, M. L., B. S., Blacksmith.....R. F. D. 2, Yorkville, S. C.



North Carolina A.M. College, Class of 1910
For the Class of 1910

Harrison, R. H., B. S., Blacksmith.....	R. F. D. 2, Yorkville, S. C.
Johnson, Enoch J., B. Agr.....	Chester, S. C.
Lamb, J. L., B. S., Teacher	Box 266, Fentress, Va.
McGimpsey, J. R., B. Agr.....	Verbank Farm Sch., Verbank, N. Y.
Merrick, Edward R., B. Agr....	care N. C. Mutual Ins. Co., Savannah, Ga.
*Powell, Wylie, B. Agr.....	Wilson, N. C.
Reid, Chas. B., B. Agr.....	Box 100, Wadesboro, N. C.
Smith, John H., B. Agr., Teacher of Agriculture, Voorhees Industrial School	Denmark, S. C.
Spaulding, John W., B. S., Bricklayer..	1000 Twentieth St., N. W. Washington, D. C.

Special

Holmes, W. H.	Goldston, N. C.
--------------------	-----------------

1909.

"Service, Our Mission."

Barnes, B. W., B. Agr., Registrar A. & M. College....	Greensboro, N. C.
Berry, Richard, B. Agr., Bookkeeper.....	Box 63, Laurinburg, N. C.
Crawford, J. L., B. S., Meharry Med. College.....	Nashville, Tenn.
Davis, C. J., B. Agr., Teacher.....	Polkton, N. C.
Davis, J. H., B. Agr.....	Tarboro, N. C.
Evans, Edward, B. S., Stu. Howard Uni.....	Washington, D. C.
Gill, Jas. C., B. Agr., Teacher of Agriculture.....	Camp Nelson, Ky.
Mabery, Samuel, B. S., Mechanic.....	Catawba, N. C.
Markham, W. H., B. S., Ass't Registrar A. & M. Coll., Greensboro, N. C.	
Mask, J. D., B. S., Teacher Manual Training.....	Sedalia, N. C.
Mitchell, John W., B. Agr., State Nor. School.....	Fayetteville, N. C.
Nelson, Fer. D., B. S., Bricklayer.....	Pittsburgh, Pa.
Price, P. B., B. Agr., Bookkeeper.....	Box 63, Laurinburg, N. C.
Webb, H. E., B. Agr., Farmer.....	Mebane, N. C.
Wray, John D., B. Agr., Farm Supt., A. & M. Col., Greensboro, N. C.	
Waugh, George, B. Agr.....	Route No. 4, Greensboro, N. C.
Wilkins, J. W., B. Agr.....	213 Coutts St., Richmond, Va.

Two-Year Course Certificates.

Ingram, W. H., Farmer	Ansonville, N. C.
Jordan, J. F., Farmer	Guilford

1910.

"Deeds, Not Words."

Bunn, Roger Edgar, B. Agr., Student Howard Uni., Washington, D. C.	
Dixon, Cornelius Vanderbilt, Student, Meharry Med. Col., Nashville, Tenn.	

Christmas, Lawrence D., B. S. A., Student, Univ. of Pa., Philadelphia.
 Headen, Guy C., B. S. A., Student, Univ. of Pa.,Philadelphia, Pa.

Leak, Henry C., B. S. A., Tinner.....	Rockingham, N. C.
Love, Geo. B., B. S. M., Teachers' Training Course, A. & M. Colege,	Greensboro, N. C.
McNeill, Claudius W., B. S. M., Principal Graded Sch.....	Morven, N. C.
Reid, James E., B. S. M., Teacher.....	Athens, Ga.
Virgo, David C., B. S. A., Instructor in Agriculture, Normal	
School.....	Elizabeth City, N. C.

Two Year Course Certificates.

Harvey, Harrington, Inst. in Carpentry, St. Augustine's School,	Raleigh, N. C.
Hollomon, H., Carpenter	Ahoskie, N. C.
Reynolds, Walter R., Merchant	Greensboro, N. C.

1914.

"For Home, For State, For Country."

Curry, J. W., B. S. A., Farmer.....	Davidson County, N. C.
Dupree, D., B. S. A., Farmer.....	Greene County, N. C.
Dupree, J. R., B. S. A., Farmer.....	Greene County, N. C.
Hollomon, H., B. S. M., Carpenter.....	Ahoskie, N. C.
Lee, D. W., B. S. A., Teacher.....	Oklahoma
McRae, John A., B. S. A., Farmer.....	Robeson, N. C.
Rieves, Caswell B., B. S. A., Dairyman, A. & M. Col., Greensboro, N. C.	
Roberts, George, B. S. A., Farmer.....	Cleveland County, N. C.
Scurlock, D. P., B. S. A., Farmer.....	Moore County, N. C.
Simmons, S. B., B. S. A., Dairyman.....	Fayetteville, N. C.
Thibodeaux, O. W., B. S. M., Bricklayer.....	La Fourche Crossing, La.
Watlington, James M., B. S. A., Dairyman.....	Ruffin, N. C.

* Deceased.

GRADUATES OF THE PREPARATORY DEPARTMENT.

Class of 1900.

Alston, Sarah V. (Miss).....	Raleigh, N. C.
Carter, Alma J. (Miss) Teacher.....	Reidsville, N. C.
Colley, J. C.	Durham, N. C.
Cotton, Lillian (Miss).....	Chester, N. C.
*Davis, L. E.	Wilmington, N. C.
Davis, Mary O. (Miss).....	Hillsdale, N. C.
Davis, R. T.	Wilmington, N. C.

*Dudley, S. Inez (Miss)	Greensboro, N. C.
Dunham, P. Wm.	Euloria, S. C.
Farrington, Bertha (Miss)	Greensboro, N. C.
Hooper, T. H.	Winston, N. C.
Jeffreys, Annie F. (Miss)	Petersburg, Va.
Jones, Estella D. (Miss)	Chapel Hill, N. C.
McKenzie, Sara P. (Miss) Teacher	Greensboro, N. C.
Pritchett, Nannie L. (Miss)	Greensboro, N. C.
*Quick, Knox S.	Laurinburg, N. C.
Richardson, M. L. (Miss)	Wilmington, N. C.
Simmons, Victor W.	Statesville, N. C.
Strong, Andrew J., M. D., Physician	Norfolk, Va.
Willis, Josie H. (Miss)	Wilmington, N. C.
Wilson, Lillie B. (Miss)	Hillsboro, N. C.
Witherspoon, Annie F. (Miss)	Greenville, N. C.
Wooten, David	Princeville, N. C.
Wright, Annie C.	Danville, Va.

Class of 1901.

Gwyn, Cecil B. (Miss)	Greensboro, N. C.
*Jones, Georgia (Miss)	Raleigh, N. C.
Jackson, N. E., M. D., Physician	Laurinburg, N. C.
Logan, Erkwood	Gale, N. C.
*Lipscombe, Hattie B. (Miss)	Newport News, Va.
Mapp, Sadie (Miss)	Philadelphia, Pa.
Palmer, Dinah (Miss)	Church Hill, N. C.
*Reaves, W. V.	Greensboro, N. C.
Rankin, A. E.	Greensboro, N. C.
Reynolds, Mattie (Miss)	Waynesville, N. C.
Watson, Della A. (Miss)	Grove Hill, N. C.
* Deceased.	

N. B.—In order that this list may be kept accurately, graduates are requested to inform the President of any change in address, vocation, etc.

SCHOLARSHIPS AND PRIZES FOR 1914-'15.

The Odell Hardware Company, of Greensboro, N. C., offers a prize of a five dollar set of fine tools to the Senior having the highest rank in the Mechanical Department for a period of four years.

The J. M. Hendrix prize of five dollars is offered for the student having the best four year record in the Agricultural Department.

The Cone Prize, offered by Mr. Caesar Cone, of Greensboro, N. C., is the income from fifty dollars and is awarded annually to the student having the best industrial record.

Mr. J. A. Hawkins, class of '06, offers a medal to the student holding the best record for scholarship, practical work and good conduct in the Mechanical Department for a period of four years.

LIST OF STUDENTS FOR THE YEAR 1913-1914.

First Year Trade Class.

Name.	County	State.
Alexander, Howard	Guilford,	North Carolina
Barber, William S.	Gaston,	North Carolina
Bayne, Roger E.	Cumberland,	North Carolina
Beaty, Marvin	Catawba,	North Carolina
Best, James R.	Pamlico,	North Carolina
Blue, Garfield	Scotland,	North Carolina
Bost, Dallas W.	Cabarrus,	North Carolina
Broadhurst, King E.	Wayne,	North Carolina
Broadnax, Raymond	Rockingham,	North Carolina
Bullock, Lawney	Person,	North Carolina
Cannady, Bennie H.	Franklin,	North Carolina
Carpenter, William	Rutherford,	North Carolina
Clark, Normal N.	Guilford,	North Carolina
Coley, David H.	Wayne,	North Carolina

Couch, Charles C.	Orange, North Carolina
Craig, Charles	Orange, North Carolina
Davidson, Arthur	Cabarrus, North Carolina
Day, Clarence	Isle of Wight, Virginia
Derr, Rome G.	Lincoln, North Carolina
Derr, Major J.	Lincoln, North Carolina
Dobbin, Glenn	Wilkes, North Carolina
Duncan, Willie	Greenville, South Carolina
Ellis, James M.	Cabarrus, North Carolina
Faison, James	Wake, North Carolina
Faison, Johnny	Sampson, North Carolina
Fallen, John	Halifax, North Carolina
Fisher, Clarence R.	Guilford, North Carolina
Forney, Alexander	Rutherford, North Carolina
Forney, Wright	Rutherford, North Carolina
Foushee, French C.	Moore, North Carolina
Freeman, Monroe	Johnston, North Carolina
Fuller, Melvin	Franklin, North Carolina
Garvin, Raymond	Gaston, North Carolina
Gillespie, John W.	Robeson, North Carolina
Gibson, William	Marlboro, South Carolina
Graves, Alexander F.	Guilford, North Carolina
Gunn, Alvis	Guilford, North Carolina
Guilford, Richard A.	Upson, Georgia
Hackney, Walter L.	Orange, North Carolina
Hargrove, Theodore E.	Philadelphia, Pennsylvania
Harris, Charles E.	Halifax, North Carolina
Harris, James	Scotland, North Carolina
Harris, Samuel	Mecklenburg, North Carolina
Hathaway, William B.	Chowan, North Carolina
Hatten, Willie	Greenville, South Carolina
Hawthorne, Joseph C.	Leon, Alabama
Hawthorne, Wesley A.	Leon, Alabama
Hines, Alonzo	Scotland, North Carolina
Hinnant, Willie V.	Wilson, North Carolina
Hockaday, Caro B.	Wake, North Carolina
Horton, Rosco H.	Wilson, North Carolina
House, James A.	Lincoln, North Carolina
Hunter, Manual	Alamance, North Carolina
Jones, Debroe	Johnston, North Carolina
Long, George F.	Alamance, North Carolina
Long, John H.	Anson, North Carolina
Long, Callie B.	Anson, North Carolina
Lyttle, John L.	Davie, North Carolina
McClelland, LeRoy	Scotland, North Carolina

McElrath, Odell	Mecklenburg, North Carolina
McIver, Fred	Cumberland, North Carolina
McIver, John S.	Lee, North Carolina
McLean, James F.	Hoke, North Carolina
McLaurin, Charles D.	Scotland, North Carolina
Malloy, James B.	Marlboro, South Carolina
Mangum, James	Wake, North Carolina
Martin, Gertis A.	Durham, North Carolina
Mills, DeCausta	Rutherford, North Carolina
Mils, Lemuel	Rutherford, North Carolina
Miller, Adam J.	Rutherford, North Carolina
Moore, A. A.	Cabarrus, North Carolina
Moore, James M.	Pender, South Carolina
Morrow, Harold A.	Guilford, North Carolina
Morton, John F.	Orange, North Carolina
Pool, Armon	Caswell, North Carolina
Reid, James	Gaston, North Carolina
Rice, George A.	Caswell, North Carolina
Richmond, Hubert	Alamance, North Carolina
Rivens, Robert	Cabarrus, North Carolina
Robinson, Sylvester	Cumberland, North Carolina
Sanders, Clarence	Johnston, North Carolina
Shipp, C. R.	Mecklenburg, North Carolina
Sims, Alfred E.	Halifax, North Carolina
Stanfield, Frank	Guilford, North Carolina
Thomas, Charles	Guilford, North Carolina
Thomas, William	Franklin, North Carolina
Tonkins, Earl	Guilford, North Carolina
Wal, Richmond	Richmond, North Carolina
Walston, Vance	Pamlico, North Carolina
Watlington, Joseph	Caswell, North Carolina
Watlington, Sandy	Caswell, North Carolina
Watson, Julius	Robeson, North Carolina
Whitted, Willie M.	Orange, North Carolina
Williams, Charles E.	Union, North Carolina
Wilson, Robert	Catawba, North Carolina
Wood, Frank N.	Guilford, North Carolina
Young, Harry L.	Cabarrus, North Carolina

Second Year Class.

Alston, Napoleon	Union, New Jersey
Armstrong, Claud	Gaston, North Carolina
Beasley, William S.	Baltimore, Maryland
Best, Henry A.	Greene, North Carolina
Blair, William R.	Cabarrus, North Carolina

Bolden, John L.	Caswell, North Carolina
Bowen, Theodore	Beaufort, North Carolina
Craig, Sankie W.	Chatham, North Carolina
Currin, Thomas	Granville, North Carolina
Deans, Horace E.	Guilford, North Carolina
Dial, William	Gaston, North Carolina
Glenn, McKinley	Halifax, North Carolina
Goodson, Addison T.	Johnston, North Carolina
Green, Solomon	Richmond, North Carolina
Green, Jerry	Montgomery, North Carolina
Holt, Arthur	Wayne, North Carolina
Hunt, Weaver	Wilkes, North Carolina
Jeffreys, Luther	Wake, North Carolina
Jones, James E.	Carteret, North Carolina
King, William	Rockingham, North Carolina
Kirkland, June F.	Orange, North Carolina
Leigh, David W.	Edgecombe, North Carolina
Locklayer, John	Roanoke, Virginia
Luton, Chas. E.	Bertie, North Carolina
McConnell, James	Guilford, North Carolina
McCoy, Edmund	Atlantic City, New Jersey
Mabrey, Charles M.	Edgecombe, North Carolina
Malone, Robert C.	Vance, North Carolina
Mask, William A.	New Hanover, North Carolina
Montague, Joshua	Wake, North Carolina
Moye, U. S.	Pamlico, North Carolina
Nelson, Earl W.	Guilford, North Carolina
Norman, LeRoy	New Hanover, North Carolina
Norris, Edward P.	Pitt, North Carolina
Robinson, Edward L.	Guilford, North Carolina
Rooks, Leonidas E.	Guilford, North Carolina
Sellers, William H.	Alamance, North Carolina
Stultz, Christopher	Notaway, Virginia
Tucker, James L.	Notaway, Virginia
Walker, James R.	Henderson, Kentucky
Watkins, Earl T.	Lawrence, Alabama
Webb, William H.	Alamance, North Carolina
White, Emmanuel	Mecklenburg, North Carolina
Whiting, Bernard	Baltimore, Maryland
Whitted, Norfleet C.	Orange, North Carolina
Wilson, O. M.	Richmond, North Carolina
Wyche, Percy	Vance, North Carolina
Young, James	Nash, North Carolina

Third Year Trade Class.

Beaver, Dennis	Wake, North Carolina
Boddie, George B.	Edgecombe, North Carolina
Burnette, Charles	New Hanover
Clark, J. H.	Beaufort, North Carolina
Dixon, Mylo ..	Alamance, North Carolina
Enoch, Walter	Alamance, North Carolina
Foust, Jasper	Onslow, North Carolina
Gaither, William P.	Buncombe, North Carolina
Gibson, Albria F.	Rowan, North Carolina
Graves, Marion	Guilford, North Carolina
Haywood, Chester	Montgomery, North Carolina
Herring, Johnny	Sampson, North Carolina
Howard, F. Bolden	Wythe, Virginia
Jeffreys, John	Alamance, North Carolina
Keys, Mack N.	Beaufort, North Carolina
Leary, William E.	Cumberland, North Carolina
Miller, Leon P.	Roanoke, Virginia
Miller, Jerry E.	Rutherford, North Carolina
Moore, Jasper L.	Nash, North Carolina
Mosby, Alfred	Norfolk, Virginia
Nelson, Sylvester	Mecklenburg, North Carolina
Roberts, Ignatius	Delaware, Pennsylvania
Small, William	Moore, North Carolina
Thomas, James	Franklin, North Carolina
Tynes, Alexander	Isle of Wight, Virginia
Wright, Wesley	Buncombe, North Carolina
White, Herbert N.	Buncombe, North Carolina
Womble, Russel	Moore, North Carolina

Fourth Year Trade Class.

Atkins, Olivet C.	Elizabeth, North Carolina
Brooks, C. Rufus	Guilford, North Carolina
Carr, Tobias L.	Norfolk, Virginia
Coppage, James E.	Norfolk, Virginia
Kerr, Bogle	Iredell, North Carolina
Lesueur, J. R.	Cumberland, North Carolina
McCormick, H. V.	Hoke, North Carolina
Murphy, William C.	Iredell, North Carolina
Reddrick, E. M.	Richmond, North Carolina
Tucker, David N.	Waterbury, Connecticut
Vincent, Percy	Cumberland, North Carolina
Whitted, Julian	Wayne, North Carolina

Freshman Class.

Bright, Ernest C.	Wayne, North Carolina
Caldwell, J. M. G.	Marion, South Carolina
Davison, George W.	Mecklenburg, North Carolina
Delmore, Harry	Mobile, Alabama
Freeman, Louis B.	Wake, North Carolina
Gilmer, Prather J.	Durham, North Carolina
Hill, Charles	Guilford, North Carolina
Jenkins, Lisbon B.	Durham, North Carolina
McRay, J. R. R.	Jones, North Carolina
Matthews, Baxter	Forsyth, North Carolina
Morrow, William E.	Guilford, North Carolina
O'Neal, Joseph C.	Norfolk, Virginia
Reddrick, Zachariah	Richmond, North Carolina
Reeves, Pearley	Albemarle, Virginia
Sherard, James M.	Wayne, North Carolina
Taylor, E. O.	Granville, North Carolina
Thompson, Charles F.	Moore, North Carolina
Thompson, Meredith	Wayne, North Carolina
Threadgill, Joseph T.	Anson, North Carolina
Whitted, Benjamin H.	Durham, North Carolina
Wynn, Charles S.	Bertie, North Carolina
Young, C. W.	North Hampton, North Carolina

Sophomore.

Blount, Dutch	Wayne, North Carolina
Cobb, John H.	Pitt, North Carolina
Foster, E. E.	Guilford, North Carolina
Hollomon, Herbert	Hertford, North Carolina
Humphrey, William H.	Gaston, North Carolina
McDonald, George	Bertie, North Carolina
Polk, Lonnie	Wake, North Carolina
Sapp, John W.	Guilford, North Carolina
Setzer, James L.	Yorktown, South Carolina
Steadman, James	Chatham, North Carolina
Smith, Leopold	Bertie, North Carolina

Junior.

Adams, Bilton F.	Wilkes, North Carolina
Coles, R. W.	Prince Edward, Virginia
Floyd, John H.	Robeson, North Carolina
Hollomon, R. B.	Hertford, North Carolina
Lackey, Elam	Alexander, North Carolina
Ward, Roscoe	Guilford, North Carolina

Senior.

Curry, Joseph W.	Davidson, North Carolina
Dupree, Dennis	Greene, North Carolina
Dupree, Jacob R.	Greene, North Carolina
Lee, David W.	Anson, North Carolina
McRae, John A.	Robeson, North Carolina
Rieves, Caswell	Guilford, North Carolina
Roberts, George	Cleveland, North Carolina
Scurlock, D. P.	Moore, North Carolina
Simmons, S. B.	Cumberland, North Carolina
Thhbodeaux, O. W.	Parish of Orlean, Louisiana
Watlington, James M.	Caswell, North Carolina

Specials.

Burgess, Carlton	Wake, North Carolina
Bryant, Jack L.	Brunswick, North Carolina
Claiborne, Nathaniel	Vance, North Carolina
Daniels, Nathaniel B.	Granville, North Carolina
Elliot, Walter	Cumberland, North Carolina
Hooker, William E.	Jones, North Carolina
Jenkins, John	New Hanover, North Carolina
Fisher, Eugene L.	Guilford, North Carolina
Lay, Benjamin A.	Lincoln, North Carolina
Lewis, Alexander	Johnston, North Carolina
Nicholson, H. B.	Edgefield, South Carolina..
Overby, William	Granvile, North Carolina
Powell, S. W.	Robeson, North Carolina
Smelley, Vernon P.	Norfolk, Virginia
Thomblin, Harry P.	Fitzgerald, Georgia
Wall, Q. C.	Johnston, North Carolina

Teachers' Training Class.

Markham, William H.	Durham, North Carolina
Love, George B.	Haywood, North Carolina
Slade, Sir Walter Raleigh	Wake, North Carolina
Speller, George W.	Bertie, North Carolina
Webb, H. E.	Alamance, North Carolina

Distribution of Students by Counties of North Carolina.

County.	No.	County.	No.	County.	No
Alamance	9	Forsyth	1	Northampton	1
Alexander	1	Franklin	4	Onslow	1
Anson	4	Gaston	6	Orange	7
Beaufort	3	Granville	5	Pamlico	3
Bertie	5	Greene	3	Person	1
Brunswick	1	Guilford	24	Pitt	2
Buncombe	3	Halifax	4	Richmond	5
Cabarrus	7	Haywood	1	Robeson	5
Carteret	1	Hertford	2	Rockingham	2
Caswell	6	Hoke	2	Rowan	1
Catawba	2	Iredell	2	Rutherford	7
Chatham	2	Johnston	6	Sampson	2
Chowan	1	Jones	2	Scotland	4
Cleveland	1	Lee	1	Union	1
Cumberland	8	Lincoln	4	Vance	3
Davidson	1	Mecklenburg	6	Wake	10
Davie	1	Montgomery	2	Wayne	8
Durham	5	Moore	5	Wilkes	3
Edgecombe	3	Nash	2	Wilson	2
Elizabeth	1	New Hanover	4		

Summary of Regular Students.

Alabama	4
Connecticut	1
Georgia	2
Kentucky	1
Louisiana	1
Maryland	2
New Jersey	2
North Carolina	219
Pennsylvania	2
South Carolina	8
Virginia	14
Total	256



Summer School Teachers and Students, 1913

Distribution of Summer School Students.

Alamance	9	Granville	5	Richmond	3
Anson	2	Guilford	81	Robeson	6
Bertie	1	Hoke	1	Rockingham	7
Burke	1	Iredell	1	Scotland	1
Cabarrus	2	Lincoln	1	Wake	4
Carteret	1	Martin	1	Warren	2
Columbus	1	Mecklenburg	4	Wayne	2
Cumberland	4	Montgomery	2	Yadkin	1
Curituck	1	Moore	3		
Davidson	4	New Hanover	2	Alabama	2
Durham	3	Orange	2	Georgia	1
Edgecombe	1	Person	1	Massachusetts	2
Forsyth	2	Pitt	1	Virginia	3
Gaston	2	Randolph	2		

Summary of All Students for the Year Ending May 31, 1914.

Alabama	66
Connecticut	1
Georgia	3
Kentucky	1
Louisiana	1
Maryland	2
Massachusetts	2
New Jersey	2
North Carolina	385
Pennsylvania	2
South Carolina	8
Virginia	17
Total	430
Number of States	11
Number of Counties of North Carolina	67
Total	78

SUMMER SCHOOL.

The fifteenth annual session of the A. & M. College Summer School will begin June 29th and continue five weeks. The Negro teachers of the State are invited to co-operate in building a strong State Summer School that will help to foster patriotism and bind together all who are interested in educational progress.

Specialists in Primary Method, School Management and all the common branches will be included on the staff of instructors.

Terms—Session, \$12.00; week, \$3.00; day, 75c.

The college is beautifully located and is an ideal spot for a pleasant summer resort.

For Prospectus, etc., apply to President J. B. Dudley, Greensboro, N. C., or Dr. D. J. Jordan, Director of the Summer School, A. & M. College, Greensboro, N. C.

AGRICULTURAL AND MECHANICAL COLLEGE FOR THE
COLORED RACE
Greensboro, North Carolina.

APPLICATION FOR ADMISSION

1. Name
2. Post-Office Address (city)
3. Street and Number.....R. F. D.....
4. County State
5. Parents' } Name
6. Home (Post Address, city).....
7. Age last birthday
8. What day do you expect to enter school?.....
9. Name of school you attended last.....
10. Give postoffice address of your last teacher.....
11. Have you ever been dismissed, suspended or expelled from a school?
12. Recommended by
13. Present work is.....
14. I desire to learn

In applying for admission, I promise, if accepted, to conduct myself in a manner becoming a gentleman, and to make proper use of the educational advantages offered. I promise to observe and obey the regulations of the institution.

(Applicant's signature).....

Do not write below this line.

The applicant has been examined and assigned to.....Year Class.

.....Dept. Classifier.

Tuition..... Lodging..... Medical Fee.....

.....Bursar.

Vaccination requirements satisfied, this.....191....

.....M. D.

The above application approved.

.....President

No..... Entered..... Page.....

(Over)

DIRECTIONS FOR ENTRANCE

The applicant will make the following payments:

Monthly Payments

Tuition, per month	\$1.00
Lodging—use of room, bedding, etc., per month.....	1.00
Board, per month	5.00

Term Payments

Chemical Laboratory Fee	\$1.00
Physical Laboratory Fee .....	.50

Yearly Payments

Incidental Deposit	\$2.00
Registration Fee	1.00
Matriculation fee, payable once	5.00
Dining Hall Fee	2.00
Medical Fee	1.00
Library Fee	1.00
Athletic Fee .....	.50

These charges are payable strictly in advance.

No student can remain on the grounds longer than 24 hours without registering.

No student will be admitted in any department of the college without paying first month's expenses in advance.

JAS. B. DUDLEY, President.

(Over)

Agricultural and Mechanical College
For the Negro Race.

Greensboro, N. C.

COLLEGE SONG

(By Mrs. Jas. B. Dudley.)

Dear A. & M., dear A. & M.,
A monument indeed
Around thy base with grateful hearts
Behold thy students kneel.
We bless the power that gave thee
birth
To help us in our need;
We'll ever strive while here on earth
All loyalty to yield!

(Chorus)

With joy, with joy, dear A. & M.,
Thy students turn from thee
To spread thy trophies year by year,
From Dare to Cherokee.

Dear A. & M., dear A. & M.,
The signet thou shalt be,
Set by our great, old commonwealth,
Proud boaster of the free.
She'd have the record of her worth
On granite not inscribed;
Nay; let the children of her birth
Proclaim it by their lives.

Dear A. & M., dear A. & M.,
Henceforth our aim shall be,
By precepts wise, by deeds more sure,
To bless the State through thee.
The arts of industry to wield
Against an idle foe;
A harvest rich, from ripened fields
Of what thy students sow.

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